

### **The role of symmetry in the aesthetics of residential building façades using cognitive science methods**

Symmetry is an important visual feature for humans and its application in architecture is completely evident. This paper aims to investigate the role of symmetry in the aesthetics judgment of residential building façades and study the pattern of eye movement based on the expertise of subjects in architecture. In order to implement this in the present paper, we have created images in two categories: symmetrical and asymmetrical façade images. The experiment design allows us to investigate the preference of subjects and their reaction time to decide about presented images as well as record their eye movements. It was inferred that the aesthetic experience of a building façade is influenced by the expertise of the subjects. There is a significant difference between experts and non-experts in all conditions, and symmetrical façades are in line with the taste of non-expert subjects. Moreover, the patterns of fixational eye movements indicate that the horizontal or vertical symmetry (mirror symmetry) has a profound influence on the observer's attention, but there is a difference in the points watched and their fixation duration. Thus, although symmetry may attract the same attention during eye movements on façade images, it does not necessarily lead to the same preference between the expert and non-expert groups.

#### **General information**

Publication status: Published

MoE publication type: A1 Journal article-refereed

Organisations: Computing Sciences, Research group: Predictive Society and Data Analytics (PSDA), Research group: Computational Medicine and Statistical Learning Laboratory (CMSL), Shahid Rajaei Teacher Training University, Swiss Distance University of Applied Sciences

Contributors: Azemati, H., Jam, F., Ghorbani, M., Dehmer, M., Ebrahimpour, R., Ghanbaran, A., Emmert-Streib, F.

Number of pages: 15

Publication date: 1 Sep 2020

Peer-reviewed: Yes

#### **Publication information**

Journal: Symmetry

Volume: 12

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Article number: 1438

ISSN (Print): 2073-8994

Original language: English

ASJC Scopus subject areas: Computer Science (miscellaneous), Chemistry (miscellaneous), Mathematics(all), Physics and Astronomy (miscellaneous)

Keywords: Aesthetics, Expertise, Eye tracking, Façade, Symmetry

Electronic versions:

The Role of Symmetry in the Aesthetics 2020

DOIs:

10.3390/sym12091438

URLs:

<http://urn.fi/URN:NBN:fi:tuni-202009297164>

Source: Scopus

Source ID: 85090939204

Research output: Contribution to journal > Article > Scientific > peer-review

### **On Hares, Ferryman and Empathy in Architectural Education**

#### **General information**

Publication status: Published

MoE publication type: D1 Article in a trade journal

Organisations: Architecture

Contributors: Nieto Fernandez, F., Rubio Hernandez, R.

Pages: 31-33

Publication date: Sep 2020

Peer-reviewed: Unknown

#### **Publication information**

Journal: Arkkitehti

Volume: 117

Issue number: 4/2020

ISSN (Print): 0783-3660

Original language: English

ASJC Scopus subject areas: Architecture

URLs:

<https://www.ark.fi/en/2020/04/on-hares-ferryman-and-empathy-in-architectural-education/>

### Challenges in assessing urban sustainability

Achieving urban sustainability has been one of the main goals in European Union policies since 1991, when an expert committee was created for that objective. Several research calls concerning it were arranged during the fifth, sixth and even seventh Framework Programmes. The results stated that indicators of urban sustainability were the most effective way of assessing urban sustainability and for establishing a set of goals of sustainability. Many research projects aimed at obtaining a valid list of indicators of urban sustainability. However, after years of research, there is still no set of indicators for planning or assessing urban sustainability, and the topic has been omitted from EU policies. This chapter investigates the various challenges in assessing urban sustainability and proposes how to evaluate urban sustainability in the future.

#### General information

Publication status: Published

MoE publication type: A3 Part of a book or another research book

Organisations: Architecture, Research group: Urban Planning and Design, Universidad Politécnica de Madrid, VTT Technical Research Centre of Finland

Contributors: Corredor-Ochoa, Á., Antuña-Rozado, C., Fariña-Tojo, J., Rajaniemi, J.

Number of pages: 20

Pages: 355-374

Publication date: Jul 2020

#### Host publication information

Title of host publication: Urban Ecology : Emerging Patterns and Social-Ecological Systems

Publisher: Elsevier

Editors: Verma, P., Singh, P., Singh, R., Singh Raghubanshi, A.

ISBN (Electronic): 978-0-12-820730-7

ASJC Scopus subject areas: Urban Studies

DOIs:

10.1016/B978-0-12-820730-7.00019-7

Research output: Chapter in Book/Report/Conference proceeding › Chapter › Scientific › peer-review

### VÄRI - maalausnäyttely Galleria Bronda, Helsinki

solo exhibition of paintings

#### General information

Publication status: Published

MoE publication type: F1 Published independent work of art

Organisations: Architecture

Contributors: Soini, K.

Publication date: 2 Jun 2020

Media of output: Other

Keywords: exhibition, painting

Additional files:

Kaisa Soini, invitation to exhibition and its opening event

URLs:

<http://www.bronda.fi/nayttely/246> (gallery website link of this exhibition)

<https://kaisasoini.fi/varista/>

<https://kaisasoini.fi/en/color/> (link to this exhibition in Kaisa Soini- web site )

Research output: Artistic and non-textual form › Exhibition › Solo art production

### Existing Apartment Buildings as a Spatial Reserve for Assisted Living

Purpose

Ageing populations induce needs to adapt existing housing. With ageing, the number of frail old people, who require assistance in daily life, is also increased. Converting existing housing into assisted living enables them to remain in their community while receiving necessary support and care. The purpose is to investigate whether post-war mass housing is spatially appropriate for adaptation into group homes for older people.

Design/methodology/approach

The research material is attained from Finland. Spatial requirements for group homes are drawn from 130 units built or renovated during 2000–2015. Spatial characteristics of mass housing are mapped from 105 apartment buildings built in the 1970s. The latter are matched with the former by comparing the connectivity of layouts, sizes of units and the numbers and sizes of individual spaces.

Findings

Group homes typically utilize a linear layout, which can easily be created in apartment buildings. Individual spaces of a group home fit apartment buildings effortlessly. Whole group home units mostly prove to be spatially feasible but result in looser dimensioning than is typical in existing units. The mass housing stock can be considered a spatial reserve for adaptation into group homes.

Originality/value

This is the first study to employ a large-scale, multi-case spatial mapping approach to analyse the adaptability properties of mass housing into assisted living. The findings pertain primarily to the Finnish context, but a methodology is presented which can be applied to other countries and also to other spatial functions.

#### **General information**

Publication status: Published

MoE publication type: A1 Journal article-refereed

Organisations: Architecture, Research group: ASUTUT, Research group: Built Environment in Transition

Contributors: Kaasalainen, T., Huuhka, S.

Number of pages: 17

Publication date: 25 May 2020

Peer-reviewed: Yes

#### **Publication information**

Journal: International Journal of Building Pathology and Adaptation

ISSN (Print): 2398-4708

Original language: English

Keywords: repurposing, adaptability, adaptive reuse, mass housing, population ageing

Electronic versions:

Kaasalainen&Huuhka2020

DOIs:

10.1108/IJBPA-02-2020-0015

URLs:

<http://urn.fi/URN:NBN:fi:tuni-202007026303>

Research output: Contribution to journal › Article › Scientific › peer-review

### **The most sustainable building is the one you don't build**

#### **General information**

Publication status: Published

MoE publication type: Not Eligible

Organisations: Architecture, Research group: Built Environment in Transition

Contributors: Huuhka, S.

Number of pages: 1

Publication date: 6 May 2020

#### **Publication information**

Media of output: Blog

Year: 2020

Original language: English

URLs:

<https://www.circuit-project.eu/post/the-most-sustainable-building-is-the-one-you-don-t-build>

Research output: Other contribution › Scientific

### **Kaupunki koronan jälkeen**

#### **General information**

Publication status: Published

MoE publication type: E1 Popularised article, newspaper article

Organisations: Architecture

Contributors: Hynynen, A.

Publication date: 4 May 2020

Peer-reviewed: Unknown

#### **Publication information**

Journal: Ilkka-Pohjalainen

Original language: Finnish

URLs:

<https://iikkapohjalainen.fi/mielipide/yleisolta/lukijoilta-kaupunki-koronan-jalkeen-1.5096011>

Research output: Contribution to journal › Comment/debate › General public

### **Pattern recognition and transformational growth adjustments alongside ring roads: Descriptive mapping from four case studies**

This paper aims to examine the existing patterns of ring roads in four diverse cities—Greater Amman in Jordan, Kuwait City in Kuwait, Oslo in Norway, and Greater Helsinki in Finland—to explore how these patterns respond to growth and elucidate the contemporary urban practices of these cities. Spatial mapping was used to measure density, mixed land use, and accessibility and identify growth characteristics parallel to the tracing processes of spatial insertion, replacement, and use change. The results illustrate that in master plans, the areas alongside ring roads were delineated either too vaguely or too prescriptively. The existing patterns of road and land use, particularly high residential concentrations, challenge the functionality of ring roads and negatively affects urban spatial qualities and services that should accompany the high-density study areas. Cumulatively, they have formed spatial non-homogeneities that challenge accessibility and dependency factors. In addition, the growth indicators represent urbanisation processes, generative schemes, and counter-formulation actions, where the replacement of the physical structure and functional character of ring roads as road restructuring is a prerequisite for generating less vulnerable urban structures. Therefore, the cases presented here raise important questions about the challenges and potential of ring roads and the areas alongside them in urban structures, in the context of the sustainable growth agenda.

#### **General information**

Publication status: Published

MoE publication type: A1 Journal article-refereed

Organisations: Architecture, Research group: Urban Planning and Design

Contributors: Amr, A.

Number of pages: 16

Publication date: May 2020

Peer-reviewed: Yes

#### **Publication information**

Journal: Land Use Policy

Volume: 94

Article number: 104552

ISSN (Print): 0264-8377

Original language: English

Keywords: Ring road, Spatial pattern, Residential concentration, Urban growth

DOIs:

10.1016/j.landusepol.2020.104552

Research output: Contribution to journal › Article › Scientific › peer-review

### **Developing architecture studio culture: peer-peer learning**

Traditionally, architecture teaching has been centered around the architectural design studio, where students are taught usually on an individual project basis. This studio environment is a physical space but also a pedagogical and cultural space where learning and teaching happens. Students also regularly present their design and design process to tutors, external guests and peers. The studio is based on project-based learning and allows for reflective practice, and integration and testing of abstract knowledge into projects. This unique pedagogical tradition of studio-based teaching is based on 'reflection in action', developed from the master-apprentice model, as a simulation of 'real-life' practice, with regular feedback on the student's design development by tutors. However, studio culture can also lead to unhealthy practices, such as peer-peer pressure and competition, long hours, isolation from other activities, and stress when exposed to negative 'public evaluation' of one's work. Nevertheless, studio culture can also support reciprocal peer-peer learning, which happens in formalized group work but also informally in the absence of tutors. Advantages include co-experimenting, and learning competencies, design processes and critical reflection from and with one another, building a student's confidence to try new things.

Through four case studies, this paper illustrates ways to enhance the unique and positive aspects of studio culture, by fostering peer-peer learning to underpin and support deeper learning and healthier practices across years. Findings and reflections on each case are jointly discussed in concluding remarks at the end of the paper.

#### **General information**

Publication status: Published

MoE publication type: A4 Article in a conference publication

Organisations: Architecture, Aarhus School of Architecture

Contributors: Pelsmakers, S., Donovan, E., Moseng, K., Eyebye, B.

Publication date: 4 Apr 2020

### Host publication information

Title of host publication: Education, Design and Practice – Understanding skills in a Complex World AMPS, Architecture\_MPS; Stevens Institute of Technology New Jersey / New York: 17-19 June, 2019  
Publisher: AMPS

### Publication series

Name: AMPS Proceedings Series

ISSN (Electronic): 2398-9467

Electronic versions:

AMPS-Proceedings-17-1-Education-Design-and-Practice\_Pelsmakers et al

URLs:

<http://architecturemp.com/wp-content/uploads/2020/04/AMPS-Proceedings-17-1-Education-Design-and-Practice.pdf>

<http://urn.fi/URN:NBN:fi:tuni-202006176132>

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

### Integrating sustainability in design studio through blended learning

The complexity of sustainability often makes its integration into architectural education a difficult challenge. Consequently, sustainability is often not taught holistically or critically, leaving students confused as to what sustainable architecture is and how they might approach this themselves. At the same time, sustainable design must not be at the expense of our architectural imagination, yet within education and practice this is also often the case

This paper investigates how to bring sustainability knowledge into the studio instead of bringing the architecture studio to sustainability knowledge. In doing so, through two case studies undertaken at Aarhus School of Architecture, Denmark, the authors illustrate the integration of sustainable design in architecture studio using blended learning, such as making use of pre-recorded video lectures; group seminars, discussions and presentations; workshops and peer-peer learning as well as traditional studio drawing activities.

Changes within pedagogies need to occur to ensure that sustainability is embedded within the design education, acknowledging the dichotomy between the technical requirements and creative expression which are crucial for well-integrated holistic, sustainable architecture. To embed sustainability in the architectural studio, both poetics and sustainability need to be taught together, focusing especially on the aesthetic and spatial implications of sustainability. The key to integrating sustainability in the architectural studio is not only to give knowledge but to ensure that specific learning activities allow for the application of this knowledge into students' design process as well as to discuss the implications of this knowledge for the students' own design project and the subsequent architectural language. This supports deep learning, critical thinking, and reflection skills. In the two cases outlined in this paper, this incorporation was embedded through developing studio-specific learning activities that cover both architecture and sustainability aspects, with students completing in-depth investigations and mappings of exemplary sustainable architecture case studies.

### General information

Publication status: Published

MoE publication type: A4 Article in a conference publication

Organisations: Architecture, Aarhus School of Architecture

Contributors: Donovan, E., Pelsmakers, S.

Publication date: 4 Apr 2020

### Host publication information

Title of host publication: Education, Design and Practice – Understanding skills in a Complex World AMPS, Architecture\_MPS; Stevens Institute of Technology New Jersey / New York: 17-19 June, 2019  
Publisher: AMPS

### Publication series

Name: AMPS Proceedings Series

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AMPS-Proceedings-17-1-Education-Design-and-Practice\_Donovan\_Pelsmakers

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<http://urn.fi/URN:NBN:fi:tuni-202006176133>

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

### Circular Construction in Regenerative Cities: A H2020 project

The poster presents an overview of the H2020 project 'Circular Construction in Regenerative Cities' (CIRCuiT), started in June 2019, and Tampere University's (TAU's) planned activities. The project cities are Copenhagen (coordinator), London,

Hamburg, and Vantaa, Finland.

The project has four areas of focus: (1) mapping the flows and stocks of materials in the built environment, (2) urban mining and recycling and reuse of building materials, (3) life cycle extension of buildings through their transformation, and (4) design for deconstruction (DfD) and adaptability.

In the first topic, i.e. flows and stocks of building materials, a material flow analysis is planned for parts of the building stock in Vantaa. The work is underlain by a previous project, where TAU reviewed the methods and materials available for built environment MFA in Finland.

In the second topic, i.e. urban mining, TAU focuses on the reuse of building components. Tests are planned for deconstructed components in TAU's construction laboratory to verify their properties and to compare them to those of virgin products. The work also contributes to standardized testing procedures for secondary components.

TAU is the WP leader for the third topic, i.e. life cycle extension of buildings. A GIS-based analysis on the demolition and renovation patterns is conducted in Vantaa to identify obsolete but transformable buildings types. Then, archetypes of these building types are formed and different development scenarios are designed. Lastly, the life cycle impacts of the scenarios are assessed.

In the fourth topic, i.e. DfD and adaptability, TAU has two distinct focuses. Firstly, the barriers to implementing more flexible housing is reviewed in an interview study of experts. Secondly, possibilities to design buildings for deconstruction is reviewed.

#### **General information**

Publication status: Published

MoE publication type: Not Eligible

Organisations: Architecture, Tampere University

Contributors: Kolkwitz, M., Huuhka, S., Luotonen, E.

Publication date: 20 Feb 2020

Peer-reviewed: Unknown

Event: Paper presented at Mining the European Anthroposphere Final Conference, Bologna, Italy.

DOIs:

10.34726/4nat-yb46

URLs:

[http://conference.minea-network.eu/wp-content/uploads/2020/02/A-CIRCULAR-CONSTRUCTION-IN-REGENERATIVE-CITIES-A-H2020-PROJECT\\_Kolkwitz.pdf](http://conference.minea-network.eu/wp-content/uploads/2020/02/A-CIRCULAR-CONSTRUCTION-IN-REGENERATIVE-CITIES-A-H2020-PROJECT_Kolkwitz.pdf)

Research output: Other conference contribution › Paper, poster or abstract › Scientific

#### **Circular Economy in Building Construction in Tampere, Finland: Buildings as Material Banks, Current Recycling Possibilities, Future Steering Instruments**

This poster presents the advances achieved in the research project 'Future Circular Economy Hubs in Finland' (CircHubs) pertaining to the circularity of building construction in the City of Tampere. The research entails three separate entities: (1) a material flow analysis of built and demolished buildings in Tampere between 2000 and 2018, (2) a literature review of the current recycling possibilities, and (3) a review of possible future steering instruments and a proposal of criteria for selected instruments.

The poster presents the first and the third items in detail. The material flow analysis was conducted in GIS and it is based on the building and dwelling registers in Tampere. Among other things, it presents an overview of the volume and development of activities by building type, and zooms geographically into identified areas of building 'replacement', i.e. areas where both demolition and building construction to take place, to understand the drivers of demolition and the nature of the materials pertaining to both activities better.

The development of the future steering instruments is based on reviewing the current Finnish literature regarding steering instruments for circular economy and low carbon construction. In addition to identifying existing instruments, some new instruments are proposed, which have not been considered in this context yet. The work entails a steering theoretical discussion on the instruments' limits and possibilities. Tentative criteria are proposed for given instruments for future development.

The work was conducted in EcoFellows Ltd. The authors of the poster are Satu Huuhka and Mario Kolkwitz. Jussi Lahti also contributed to the work in the project. Most of the results have been published in Finnish only, so the authors would welcome the chance to disseminate in English via this poster.

#### **General information**

Publication status: Published

MoE publication type: Not Eligible

Organisations: Architecture, Research group: Built Environment in Transition, Tampere University

Contributors: Huuhka, S., Kolkwitz, M., Lahti, J.

Publication date: 20 Feb 2020

Peer-reviewed: Unknown

Event: Paper presented at Mining the European Anthroposphere Final Conference, Bologna, Italy.

DOIs:

10.34726/4nat-yb46

URLs:

[http://conference.minea-network.eu/wp-content/uploads/2020/02/CIRCULAR-ECONOMY-IN-BUILDING-CONSTRUCTION-IN-TAMPERE-FINLAND\\_Huuka.pdf](http://conference.minea-network.eu/wp-content/uploads/2020/02/CIRCULAR-ECONOMY-IN-BUILDING-CONSTRUCTION-IN-TAMPERE-FINLAND_Huuka.pdf)

Research output: Other conference contribution › Paper, poster or abstract › Scientific

### **The Temporality and Rhythmicity of Lived Street Space**

This dissertation, in short, examines the temporalities and rhythmicities of day-to-day urban mobility practices on the city street. Streets, and other mobility-centred spaces of the city, are the main stages of public urban life – they are essential to how we (routinely) use and interact with the built environment, connect to our neighbourhoods, and encounter other city dwellers – and thus play a key part in the making of liveable, sustainable and just cities. Examining the street as a mobile assemblage, the study probes and conceptualizes some of the key rhythms that emerge from such daily mobility patterns of the street, aiming to draw a detailed picture of the recurring urban (micro)temporalities from a mobilities perspective that partially constitute the 'lived' aspects of the day-to-day built environments. The theoretical framework on temporalities draws from various conceptual lineages, notably a Lefebvrian rhythm-analytical framework, and defines the studied mobility rhythms of the street as the inseparable relations between spaces, times and mobile embodied practices. The practical research focus is set on the grassroot-level embodied mobilities. Here mobility practices are understood in a broad sense (following a new mobilities paradigm) as activities that, whilst physically moving people from place A to place B, also produce meanings, experiences, sense of belonging, socio-material interactions, imageries, and (mobile) cultures in the process. Utilizing various mobile research methods (in-depth go-along interviews, participant-produced photographs, route videos and route maps; extensive videoed site observations), and by taking a postphenomenological research perspective, the dissertation examines recurring walking and driving routes, and the mobile event of day-to-day street space in two major Finnish cities. The analysis of the data – presented in four research articles (#01–04)– reveals, on one hand, how people (inter)subjectively make sense of and modify the rhythmicities of the street (and the city in general) inside their own mobile daily routines, and, on the other, how people – through their (mobile) uses of the space – produce temporal, or momentarily perceivable, architecture of the street by adapting to, or contesting, pre-set rhythmicities. The analysis further reveals different mediacies (#01) and processes of pacing (#02) of such rhythmicities, the role of urban morphologies in the formation of these rhythmicities (#03), and the time-sensitive rhythmic modes of appropriating the street through mobile uses (#04). The work proposes that the emerging rhythm-analytical research framework is an applicable and advantageous mode for approaching and mapping the urban phenomena that are inherently caught in a continuous flux and flow. In the case of the day-to-day street space, rhythm-analysis can be used to reveal micro-level (next to macro-level) temporalities that depict the street as a site of multiple heterogeneous and simultaneous temporalities and timings. Likewise, rhythm-analysis, helps us to understand the complexity of urban mobilities and day-to-day routes beyond their strictly functional means, revealing the multiplicities of temporal relations in such recurring body-environment relations. Together, they are able to draw a nuanced picture of some of the key urban structures, mapping both formal (planned and designed, set from the 'above') as well as informal (accidental and routine-like, set from the 'below') mobility structures of the city. They highlight the continuous, rhythmic and arrhythmic, pulses of human activity in the city, the intensities of the urban fabric. In other words, they reveal multiplicities of the beat of the city and its streets, both the planned and designed as well as the ones produced by their inhabitants on the move.

### **General information**

Publication status: Published

MoE publication type: G5 Doctoral dissertation (article)

Organisations: Architecture

Contributors: Tartia, J.

Publication date: 17 Jan 2020

### **Publication information**

Publisher: Tampere University

Volume: 190

ISBN (Print): 978-952-03-1386-9

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Original language: English

### **Publication series**

Name: Tampere University Dissertations

Volume: 190

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ISSN (Electronic): 2490-0028

URLs:

### **Architectural window design and energy efficiency: Impacts on heating, cooling and lighting needs in Finnish climates**

The building sector constitutes a significant share of global energy consumption and CO<sub>2</sub> emissions. Despite improving technology and materials, the foundation of successful energy design lies in architectural design decisions. Windows are one architectural design issue that is a key factor in both energy efficiency and functionality. This research utilized dynamic building simulations to study the direct and combined energy impacts of window related architectural design through the following main variables' effect on heating, cooling, and lighting need: window area, proportions, horizontal position, external shading, glazing properties, and adjacent room proportions. Four solar orientations and three climatically different Finnish locations were included as context variables.

Window energy efficiency in the studied cases was found to be primarily about controlling solar heat gain. Geographic location changed not only energy consumption directly, but also the individual variables' impact on it and each other. The results indicate that cooling can be a significant factor even in cold climates, and that energy efficiency should always be evaluated using local weather data as well as sufficient design detail. Most properties affected each other significantly, highlighting a need for a comprehensive approach in both research and design practice and allowing evaluating previous studies comprising fewer variables.

#### **General information**

Publication status: Published

MoE publication type: A1 Journal article-refereed

Organisations: Architecture, Research group: ASUTUT, Civil Engineering, Research group: Building Physics, Tampere University of Applied Sciences (TAMK)

Contributors: Kaasalainen, T., Mäkinen, A., Lehtinen, T., Moisio, M., Vinha, J.

Number of pages: 14

Publication date: Jan 2020

Peer-reviewed: Yes

Early online date: 17 Oct 2019

#### **Publication information**

Journal: Journal of Building Engineering

Volume: 27

Article number: 100996

ISSN (Print): 2352-7102

Original language: English

ASJC Scopus subject areas: Architecture

Keywords: Energy performance, Window design, Architectural design, Multivariable simulation, Solar energy

DOIs:

10.1016/j.jobe.2019.100996

Research output: Contribution to journal > Article > Scientific > peer-review

### **Rakennettuun ympäristöön sitoutuneet materiaalit ja niiden virrat: kartoittamisen, ennustamisen ja käytön esiselvitys**

#### **General information**

Publication status: Unpublished

MoE publication type: D4 Published development or research report or study

Organisations: Architecture, Research group: Built Environment in Transition, Civil Engineering, Research group: Service Life Engineering of Structures, Research group: Earth Constructions, Suomen ympäristökeskus SYKE - Finnish Environment Institute, VTT Tech Res Ctr Finland, VTT Technical Research Center Finland, VTT Technical Research Centre of Finland

Contributors: Pesu, J., Nissinen, A., Sederholm, C., Huuhka, S., Köliö, A., Kuula, P., Lahdensivu, J., Hradil, P., Wahlström, M., Teittinen, T.

Publication date: Jan 2020

#### **Publication information**

Original language: Finnish

Research output: Book/Report > Commissioned report > Professional

### **A study on main architectural and structural design considerations of contemporary supertall buildings**

The design of supertall buildings (300m+) involves many professionals from several disciplines. The need for coordination among numerous experts, increases complexity of the entire process, which is typically conducted under the leadership of the architect, or sometimes the contractor. Consequently, the architects designing supertall buildings must be aware of architectural and structural design considerations and their interrelations. In this paper, the main architectural design considerations and structural system details of supertall buildings are studied; these include 93 completed or under construction buildings from the 1980s onwards. This study analyses the contemporary trends in main architectural and



structural design considerations and corresponding interrelations. In addition, more inclusive and consistent classifications of structural system, building form, and core planning are proposed. The comparison between design considerations over the new proposed classifications is intended to aid and direct architects in the planning and development of supertall building projects as a basic guideline.

#### **General information**

Publication status: E-pub ahead of print  
MoE publication type: A1 Journal article-refereed  
Organisations: Architecture, Tampere University, Middle East Technical Univ.  
Contributors: Ilgin, H. E., Ay, B. Ö., Gunel, M. H.  
Publication date: 2020  
Peer-reviewed: Yes

#### **Publication information**

Journal: ARCHITECTURAL SCIENCE REVIEW  
ISSN (Print): 0003-8628  
Original language: English  
ASJC Scopus subject areas: Architecture  
Keywords: architectural design considerations, building form, core planning, structural design considerations, structural system, Supertall building  
DOIs:  
10.1080/00038628.2020.1753010

#### **Bibliographical note**

INT=arch,"Ilgin, Hüseyin Emre"  
Source: Scopus  
Source ID: 85083712874  
Research output: Contribution to journal › Article › Scientific › peer-review

### **Built Environment and Architecture as a Resource: Proceeding Series**

#### **General information**

Publication status: Published  
MoE publication type: C2 Edited books  
Organisations: Architecture, Research group: Urban Laboratory, Research group: Urban Planning and Design, Chalmers University of Technology, Aarhus School of Architecture  
Contributors: Chudoba, M. (ed.), Hynynen, A. (ed.), Rönn, M. (ed.), Toft, A. E. (ed.)  
Number of pages: 250  
Publication date: 2020

#### **Publication information**

Publisher: Nordic Academic Press of Architectural Research  
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Original language: English

#### **Publication series**

Name: The NAAR Proceedings Series  
Publisher: Nordic Academic Press of Architectural Research  
ISSN (Electronic): 2535-4523  
URLs:  
<http://arkitekturforskning.net/na/issue/publishing>

#### **Bibliographical note**

jufoid=86486  
Research output: Book/Report › Anthology › Scientific › peer-review

### **Emotional diners and rational eaters: Constructing the urban lunch experience**

Lunch is an urban phenomenon relatable to people of all age groups. Nationally-legislated-free lunches for children at day-care, schools, universities and at workplace canteens have a long history in the Finnish welfare society. In this article, the meaning-making of having lunch is shown to be mainly – but not solely – rational, and the sensory and emotional information received from the environment is verbally and rationally interpreted by the interviewees. In comparison, local food events are experiential and embodied in terms of the senses. It is asked whether there are common elements between those two contexts of eating and if some of the findings from the experiential side of eating might be applied to everyday eating occasions, thus contributing to urban conviviality.

### General information

Publication status: Published

MoE publication type: A1 Journal article-refereed

Organisations: Architecture, Research group: Urban Laboratory, University of Turku, University of Eastern Finland

Contributors: Hynynen, A. J., Aaltojärvi, I., Hopia, A., Uimonen, H.

Number of pages: 21

Publication date: 2020

Peer-reviewed: Yes

### Publication information

Journal: Journal of Urbanism

ISSN (Print): 1754-9175

Original language: English

DOIs:

10.1080/17549175.2020.1762706

Research output: Contribution to journal › Article › Scientific › peer-review

### Kulttuurin tähtikarttoja.

#### General information

Publication status: Published

MoE publication type: E1 Popularised article, newspaper article

Organisations: Architecture, Research group: Urban Laboratory

Contributors: Hynynen, A.

Publication date: 2020

Peer-reviewed: Unknown

#### Publication information

Journal: Kulttuurilehti ilmiö

Issue number: 1/2020

Original language: Finnish

URLs:

<https://taideseinajoki.fi/ilmiö03/kulttuurikeskus/kulttuurin-tahtikarttoja/>

Research output: Contribution to journal › Comment/debate › General public

### Modeling of hygrothermal behavior for green facade's concrete wall exposed to nordic climate using artificial intelligence and global sensitivity analysis

Green facades are one of the most promising natural-based solutions for buildings. Notwithstanding, in regions with varying weather such as the northern hemisphere, these can be counterproductive for the structures due to humidity retention. For these reasons, this work presents the development of an Artificial Neural Network (ANN) model to estimate the hygrothermal behavior inside a concrete wall protected by a second foliage skin. The database used for model formation was obtained through measurements made in an Accelerated Weathering Laboratory (AWL) to emulate the Nordic climatic conditions for a typical year. The ANN-hygrothermal model was trained in function of the parameters: environment relative humidity, ambient temperature, microclimate's relative humidity, microclimate's temperature, and the separation distance between the vegetation and the wall. The statistical results of the model demonstrated successful adaptability and great generalization capacity for both internal temperature ( $R^2 = 99.98\%$  for training and  $R^2 = 99.95\%$  for testing) and internal humidity ( $R^2 = 99.16\%$  for training and  $R^2 = 99.17\%$  for testing). Additionally, a sensitivity analysis was implemented, showing that the most influential variable in the estimation of both hygrothermal parameters is the ambient temperature and that the separation distance has a significant impact on the humidity produced inside the wall. Finally, the presented computational approach can be implemented in non-invasive monitoring systems or as a complementary tool in studies of concrete degradation due to humidity.

#### General information

Publication status: E-pub ahead of print

MoE publication type: A1 Journal article-refereed

Organisations: Research group: Virtual Building Technologies, Architecture, Autonomous University of Yucatan

Contributors: May Tzuc, O., Rodríguez Gamboa, O., Aguilar Rosel, R., Che Poot, M., Edelman, H., Jiménez Torres, M., Bassam, A.

Publication date: 2020

Peer-reviewed: Yes

#### Publication information

Journal: Journal of Building Engineering

Volume: 33

Article number: 101625

ISSN (Print): 2352-7102

Original language: English

ASJC Scopus subject areas: Civil and Structural Engineering, Architecture, Building and Construction, Safety, Risk, Reliability and Quality, Mechanics of Materials

Keywords: Artificial neural networks, Global sensitivity analysis, Green infrastructure, Humidity inside concrete, Sustainable construction

DOIs:

10.1016/j.job.2020.101625

Source: Scopus

Source ID: 85088861500

Research output: Contribution to journal > Article > Scientific > peer-review

### **Optional and necessary activities: Operationalising Jan Gehl's analysis of urban space with Foursquare data**

The paper presents a method to operationalise Jan Gehl's categorisation of dweller's activity patterns in public space using Foursquare data. The 'Urban Activity Wheel' method is instrumental in showing how location based social media data is beneficial to understand the distribution and variety of contemporary activity patterns. Re-organising both location-based social media data and statistical sources, unearths emerging activity patterns across scales from local to regional city making. Urban Activity Wheel shifts focus from the traditional functional analysis of urban space towards understanding activities and, thus, the human perspective of use, practices and new agencies. A specific analysis, the Shannon-Wiener Index of the complexity implemented on urban activities, gives further hints about the experiential qualities and development opportunities of urban spaces and neighbourhoods.

### **General information**

Publication status: Published

MoE publication type: A1 Journal article-refereed

Organisations: Architecture, Research group: Urban Planning and Design, HafenCity University Hamburg

Contributors: Cerrone, D., Baeza, J. L., Lehtovuori, P.

Number of pages: 12

Pages: 68-79

Publication date: 2020

Peer-reviewed: Yes

### **Publication information**

Journal: International Journal of Knowledge-Based Development

Volume: 11

Issue number: 1

ISSN (Print): 2040-4476

Original language: English

ASJC Scopus subject areas: Strategy and Management, Information Systems and Management, Management of Technology and Innovation

Keywords: Activities, Foursquare, Geographic information systems, Instagram, Jan Gehl, Public space, Shannon-Wiener, Social media, Stakeholder participation, Urban analytics

DOIs:

10.1504/IJKBD.2020.106836

Source: Scopus

Source ID: 85084307497

Research output: Contribution to journal > Article > Scientific > peer-review

### **Potential of space zoning for energy efficiency through utilization efficiency**

Energy efficiency improvements for buildings are required globally to reduce greenhouse gas emissions. Energy efficiency is typically calculated in relation to building size (kWh/m<sup>2</sup>a), which ignores utilization. A utilization perspective entails a paradox in terms of energy efficiency: When utilization increases, so does energy consumption, encouraging minimizing the use of buildings. This paper advocates the use of a utilization efficiency indicator to reveal the impact of building use on energy efficiency. As a concrete design strategy, this paper explores the energy efficiency impact of space zoning, in this context meaning grouping rooms with similar utilization to optimize building systems. To this end, multiple whole building simulations on different utilization variants have been conducted. The results show that such design can improve concrete energy efficiency through more efficient utilization. Simultaneously, the importance of proper space zoning and utilization is highlighted, as otherwise simply increasing usage can also have a negative energy efficiency impact. This study raised the need for systematic utilization design to be included throughout the design process.

### **General information**

Publication status: Published

MoE publication type: A1 Journal article-refereed

Organisations: Architecture, Research group: ASUTUT, Civil Engineering, Tampere University of Applied Sciences (TAMK)

Contributors: Lindberg, T., Kaasalainen, T., Moisio, M., Mäkinen, A., Hedman, M., Vinha, J.  
Pages: 19-40  
Publication date: 2020  
Peer-reviewed: Yes  
Early online date: 27 Jun 2018

#### Publication information

Journal: ADVANCES IN BUILDING ENERGY RESEARCH  
Volume: 14  
Issue number: 1  
ISSN (Print): 1751-2549  
Original language: English  
Electronic versions:

Lindberg - Potential of space zoning for energy efficiency through utilization efficiency. Embargo ended: 27/06/19

DOIs:

10.1080/17512549.2018.1488619

URLs:

<http://urn.fi/URN:NBN:fi:tuni-201911196065>. Embargo ended: 27/06/19

Research output: Contribution to journal › Article › Scientific › peer-review

#### Re-centring peripheries along ring roads under a smart growth agenda: case studies of Espoo Innovation Garden and Vantaa Aviapolis in Finland

The study expands on the recent cluster-oriented smart growth vision in Greater Helsinki, Finland, and examines with two case studies the pertinent locational factor and locality-specific issues. The contemporary regional development tendencies of smart clustering have reframed place-making schemes with an aim of placing large concentrations of business activities on the periphery. The case studies of Espoo Innovation Garden and Vantaa Aviapolis draw on descriptive before-and-after analysis over a defined timeframe. The study addresses the formation and transformation of the spatial structure and its relative and relational qualities on an aggregated scale. It demonstrates the potential, challenges, tools, and strategies of the operating smart growth agenda generating spatial-economic competitiveness and attractiveness factors in these particular projects. The findings explain how the locational factor along ring roads parallel with the land-use management and former model of spatial and economic concentration and centralization are hampering the restructuring of new urban centralities.

#### General information

Publication status: Published  
MoE publication type: A1 Journal article-refereed  
Organisations: Architecture  
Contributors: Amr, A.  
Pages: 357-379  
Publication date: 2020  
Peer-reviewed: Yes  
Early online date: 10 Sep 2019

#### Publication information

Journal: European Planning Studies  
Volume: 28  
Issue number: 2  
ISSN (Print): 0965-4313  
Original language: English  
Keywords: Re-centring periphery, locational factor, cluster development, ring roads  
DOIs:

10.1080/09654313.2019.1663794

Research output: Contribution to journal › Article › Scientific › peer-review

#### Temporary uses of vacant and abandoned urban spaces in Latin America: An exploration

Temporary use has become an increasingly focal subject in the fields of planning and urban policy. However, research has focused mostly on Europe and the United States, with little attention being given to temporary use in Latin America.

To add relevant cases and broaden the theoretical debate, this article presents an exploration of temporary use in different Latin American cities, from Mexico to Argentina. It charts temporary community centres and ephemeral art galleries that arise in historical abandoned buildings; new urban gardens that flourish over the ruins of monumental modernist housing projects from the 1960s; parklets and pocket parks that appear amongst overlooked deteriorated spaces; and abandoned plots that are transformed into temporary cinemas and playgrounds for children and their families. Furthermore, the article illustrates how these existing environments—often private, inert, and abandoned—are temporarily appropriated as lively spaces open to the public and transformative for cultural and urban practices in Latin American contexts. Finally, the

article contextualizes the various examples in theoretical debates on everyday urbanism and do-it-yourself urbanism, showing the unique dimensions and learning points from the Latin American scene.

#### General information

Publication status: Published  
MoE publication type: A4 Article in a conference publication  
Organisations: Architecture  
Contributors: Milián Bernal, D.  
Number of pages: 29  
Pages: 181-209  
Publication date: 2020

#### Host publication information

Title of host publication: Built Environment and Architecture as a Resource : Proceeding Series  
Volume: 2020  
Publisher: Nordic Academic Press of Architectural Research  
Edition: 1  
ISBN (Electronic): 978-91-983797-4-7

#### Publication series

Name: The NAAR Proceedings Series  
Publisher: Nordic Academic Press of Architectural Research  
ISSN (Electronic): 2535-4523  
Electronic versions:

Temporary uses of vacant and abandoned 2020

URLs:

<http://urn.fi/URN:NBN:fi:tuni-202008176494>

<http://arkitekturforskning.net/files/journals/1/issues/117/117-27-PB.pdf>

#### Bibliographical note

jufoid=86486

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

#### La oportunidad del afuera / The Opportunity of the Outside

When in an open field, Jaume Plensa has finally the possibility of installing a sculptural piece in the heart of Madrid, he does so in the form of a white, great height infant head named Julia: "I think it was essential to introduce tenderness in the public space"(1). The expression of the sculpture distills tranquility and harmony from its feminine, light and ephemeral condition, a new monumentality that perhaps introduces a legitimate collective aspiration: the reorganization of the current conditions of exteriority.

#### General information

Publication status: Published  
MoE publication type: C2 Edited books  
Organisations: Architecture, Universidad de Alcalá, Universidad Camilo José Cela  
Contributors: García Triviño, F. (ed.), Nieto Fernandez, F. (ed.), Psegiannaki, K. (ed.), Díaz Camacho, M. Á. (ed.), Rubio Hernandez, R. (ed.)  
Number of pages: 124  
Publication date: 31 Dec 2019  
Peer-reviewed: Yes

#### Publication information

Journal: HipoTesis Numbered Issues

Volume: Hipo 7

ISSN (Print): 2340-5147

Original language: Spanish

ASJC Scopus subject areas: Architecture

URLs:

<http://hipo-tesis.eu/serienumerada/index.php/ojs/issue/view/hipo7>

Research output: Contribution to journal › Special issue › Scientific › peer-review

#### Stakeholders' Interests in Developing an Energy Ecosystem for the Superblock – Case Hiedanranta

Policy objectives aimed toward zero-energy buildings call for the utilization of building-integrated renewable energy and distributed energy resources (DER). To enhance the utilization of DER, previous literature proposed the concept of an integrated community energy system (ICES). This research suggested using superblocks (units of multiple urban blocks) to define geographical limits, social contexts, and possibly common administrations for ICESs along with other living- and

sustainability-related activities in an urban context. Through interviews with key stakeholders and an analysis, this research investigates the applicability of the superblock-ICES as a way of reaching the low-carbon objectives in the Hiedanranta brownfield development project in the city of Tampere, Finland. This research confirms that the driving forces of community-based solutions are economic benefits, technical development, and objectives of sustainability, and reveals or confirms that social acceptability, missing planning practices, economic risk, and missing or hindering legislation are the main issues or barriers of superblock-ICESs. For a wider adoption of superblock-ICESs, this research suggests cross-disciplinary piloting, together with developing planning practices and simulation tools. In Finland, legislative reforms are needed to remove the barriers and clarify issues related to security, reliability, customer protection, and public interest in governing a locally and collectively owned energy system.

### General information

Publication status: Published

MoE publication type: A1 Journal article-refereed

Organisations: Civil Engineering, Research group: Virtual Building Technologies, Architecture, Research group: Urban Planning and Design

Contributors: Joensuu, T., Norvasuo, M., Edelman, H.

Number of pages: 19

Publication date: 31 Dec 2019

Peer-reviewed: Yes

### Publication information

Journal: Sustainability

Volume: 12

Issue number: 1

Article number: 327

ISSN (Print): 2071-1050

Ratings:

Scopus rating (2019): CiteScore 3.2 SJR 0.581 SNIP 1.165

Original language: English

DOIs:

10.3390/su12010327

Research output: Contribution to journal > Article > Scientific > peer-review

### Looking Up: Imagining a Vertical Architecture

Densification is a much-used concept in urban planning in Finland today. Big cities are dealing with a growing population, and a reasonable solution to housing needs seems to be infill construction. Along with the demand for density comes a discussion about vertical building and the role of tall buildings in the city skyline and the townscape. Today's discussion is updating a similar discussion from the early decades of the 20th century, when the future seemed vertical in many urban planners' visions, on both sides of the Atlantic. In this article, two such visions from the 1920s are re-visited: Swiss-French architect Le Corbusier's famous plan for the centre of Paris and Finnish-American architect Eliel Saarinen's plan for the lakefront of Chicago. These plans reflected a contemporary belief in technological advancement and showed a master planner attitude with a focus on the whole urban environment. Both planners were also looking upward, although seeing the possibilities of a vertically constructed city somewhat differently. In spite of their forward-reaching visionary qualities, both plans remained on paper, depicting a possible future that is now looked at as an alternate past. These visions and discussions of the previous century could still offer a comprehensive view for the contemporary discussion on urban density and one of its results: the vertical city. Many of the questions that should be answered when increasing densities in today's cities already had their beginnings in the visions that the 20th century architects offered for the future.

### General information

Publication status: Published

MoE publication type: A3 Part of a book or another research book

Organisations: Architecture, Research group: Urban Planning and Design

Contributors: Chudoba, M.

Number of pages: 25

Pages: 99-124

Publication date: 20 Dec 2019

### Host publication information

Title of host publication: Reflecting Histories and Directing Futures : Proceedings Series

Publisher: Nordic Academic Press of Architectural Research

Editors: Toft, A. E., Rönn, M., Smith Wergeland, E.

Edition: 2019-1

ISBN (Print): 978-91983797-3-0

Keywords: high-rise, skyscraper, tall building, townscape, Saarinen, Le Corbusier

URLs:

<http://arkitekturforskning.net/na/issue/publishing> (Link to publication 2019-1)

Research output: Chapter in Book/Report/Conference proceeding › Chapter › Scientific › peer-review

### **Urban Planning in the Post-Zoning Era: From Hierarchy to Self-Organization in the Reform of the Finnish Land Use and Building Act**

Encountering cities as complex systems has been pictured as both an intellectual challenge and an urge to reconceptualise planning practices accordingly. Statutory planning in Finland, like in many other European countries, is built on the principles of hierarchical three-level zoning and area reservation codes. The zoning system reflects two historical tasks: the industrialising society's need to separate uses and the post-war desire for hierarchical administrative structures. Both these demands are rapidly losing their importance. The article focuses on current urban planning practices and planning rules, discussing their limitations to cope with urban complexity and self-organised dynamics, and aiming to develop new rules that could potentially turn complexity into an asset. Evolving digital technologies provide completely new opportunities for developing urban planning into a more transparent and interactive tool. In this framework, we set out to study the development potentials of planning rules in Finland, where the drafting of a new Land Use and Building Act is currently underway calling for a reassessment of the operative role of the planning system.

#### **General information**

Publication status: Published

MoE publication type: A1 Journal article-refereed

Organisations: Architecture, Research group: Urban Planning and Design

Contributors: Rantanen, A., Rajaniemi, J.

Number of pages: 15

Publication date: 13 Dec 2019

Peer-reviewed: Yes

#### **Publication information**

Journal: Environment & Planning B: Planning and Design

ISSN (Print): 0265-8135

Ratings:

Scopus rating (2019): CiteScore 4.5 SJR 1.109 SNIP 1.743

Original language: English

ASJC Scopus subject areas: Urban Studies

Keywords: zoning, urban planning, self-organisation, Land Use and Building Act, Finland

DOIs:

[10.1177/2399808319893686](https://doi.org/10.1177/2399808319893686)

Research output: Contribution to journal › Article › Scientific › peer-review

### **Professional Association of Architects of Burgos: Centro Cívico Municipal de Boecillo (Valladolid)**

Built work 'Municipal Civic Centre in Boecillo (Valladolid)' exhibited and published in catalogue at '50 Anniversary ETSAVA (School of Architecture in Valladolid). Time and Architecture' exhibition at Professional Association of Architects of Burgos (COACyLE)

#### **General information**

Publication status: Published

MoE publication type: F2 Public partial realisation of a work of art

Organisations: Architecture, Universidad de Valladolid

Contributors: Martínez Rodríguez, J. M., Escudero Conesa, I., Nieto Fernandez, F.

Publication date: 2 Dec 2019

#### **Event information**

Event: Time and Architecture: 50 Anniversary ETSAVA (School of Architecture in Valladolid)

Location: Professional Association of Architects in Burgos (COACyLE), Burgos, Spain

ASJC Scopus subject areas: Architecture

URLs:

<http://www.coaburgos.com/varios/exposici%C3%B3n-tiempo-y-arquitectura-50-aniversario-de-la-escuela-t%C3%A9cnica-superior-de>

Research output: Artistic and non-textual form › Exhibition › Art in coproduction › peer-review

### **Tampereen arkkitehtikoulu 50 vuotta**

#### **General information**

Publication status: Published

MoE publication type: B1 Article in a scientific magazine

Organisations: Architecture, Research group: Urban Planning and Design  
Contributors: Chudoba, M., Rajaniemi, J.  
Number of pages: 4  
Pages: 29-32  
Publication date: Dec 2019  
Peer-reviewed: No

#### **Publication information**

Journal: Yhdyskuntasuunnittelu  
Volume: 57  
Issue number: 3  
ISSN (Print): 1459-6806  
Original language: Finnish  
Research output: Contribution to journal › Review Article › Scientific

#### **From obscurity to heritage: Canonisation of the Nordic Wooden Town**

Art historian Juan Pablo Bonta has presented a nine-step model for analysing how the interpretation of architectural oeuvres becomes canonised. We suggest that in terms of the built heritage, canonisation and heritagisation are essentially the same process, so Bonta's model can be used for analysing heritagisation processes. This article testifies to this assumption by examining how the interpretation of historic Nordic wooden towns became stabilised in Finland. The concept was introduced in the 1960s to describe the Nordic urban heritage that was threatened by massive town development projects. The identification of the heritage category enabled the preservation of some remaining wooden districts. Examining this process allows us to discuss the role of expertise in the building preservation. In the case of wooden towns, experts' early recognition was a crucial precondition for the preservation of the heritage, which enabled novel generations to form a living relationship with it. Seen through the experts' writings, the heritagisation process of the wooden towns also reflect the expanding scope of the built heritage discipline. Based on our findings, the canonisation model is applicable not only to the individual oeuvres, as Bonta addresses, but also to broader built environments and, more conceptually, to heritage categories.

#### **General information**

Publication status: Published  
MoE publication type: A1 Journal article-refereed  
Organisations: Architecture, Research group: Architecture: History and Theory, Research group: Built Environment in Transition  
Contributors: Kalakoski, I., Huuhka, S., Koponen, O.  
Number of pages: 16  
Pages: 790-805  
Publication date: 29 Nov 2019  
Peer-reviewed: Yes

#### **Publication information**

Journal: INTERNATIONAL JOURNAL OF HERITAGE STUDIES  
Volume: 26  
Issue number: 8  
ISSN (Print): 1352-7258  
Ratings:  
Scopus rating (2019): CiteScore 2.4 SJR 0.613 SNIP 1.905  
Original language: English  
Keywords: canonisation, heritagisation, heritage experts, heritage discourse, wooden towns  
Electronic versions:  
From obscurity to heritage 2019  
DOIs:  
10.1080/13527258.2019.1693417  
URLs:  
<http://urn.fi/URN:NBN:fi:tuni-201912026491>  
Research output: Contribution to journal › Article › Scientific › peer-review

#### **Building Conservation and the Circular Economy: A Theoretical Consideration**

##### **Purpose**

The purpose of this conceptual paper is to discuss the relation between building conservation and circular economy (CE), which are often erroneously seen as inherently contradictory to one another.

##### **Design / methodology / approach**

The work draws from a comparative approach. The paper reviews a body of literature on architectural conservation and CE to establish an understanding on the state-of-the-art for both disciplines separately. Then, the relation between thereof



is developed through a theoretical discourse.

#### Findings

Both architectural conservation and CE aim at safeguarding value, although they define 'value' differently. Fabric-focused conservation and CE favor minimal intervention to material, albeit they arrive at this conclusion from different bases. Consequently, both approaches struggle with the low cost of virgin resource extraction and waste production and the high cost of human labor in contemporary Western societies. CE could be harnessed for building conservation by adopting its vocabulary and methodology, such as life cycle assessment and material flow analysis. Transitioning towards CE can help increase the preservation of built heritage while redefining what is meant by 'heritage' and 'waste'.

#### Originality / value

Prior to this paper, there have been no articles addressing the relationship of the concepts explicitly and to this extent. The paper provides a theoretical basis for further discourse and outlines some implications of CE for the construction and built heritage disciplines.

#### General information

Publication status: Published

MoE publication type: A1 Journal article-refereed

Organisations: Architecture, Research group: Built Environment in Transition, Aarhus School of Architecture

Contributors: Huuhka, S., Vestergaard, I.

Number of pages: 12

Pages: 29-40

Publication date: 28 Nov 2019

Peer-reviewed: Yes

#### Publication information

Journal: JOURNAL OF CULTURAL HERITAGE MANAGEMENT AND SUSTAINABLE D

Volume: 10

Issue number: 1

ISSN (Print): 2044-1266

Ratings:

Scopus rating (2019): CiteScore 1.2 SJR 0.283 SNIP 0.816

Original language: English

Keywords: conservation theory and practice, sustainability, modern heritage, building materials, architecture

Electronic versions:

Huuhka\_Vestergaard\_building\_conservation\_and\_circular\_economy\_author\_accepted\_manuscript\_ahead\_of\_print

DOIs:

10.1108/JCHMSD-06-2019-0081

URLs:

<http://urn.fi/URN:NBN:fi:tuni-201912026488>

Research output: Contribution to journal > Article > Scientific > peer-review

#### Arkkitehtuurissa riittää tutkittavaa

#### General information

Publication status: Published

MoE publication type: D1 Article in a trade journal

Organisations: Architecture, Research group: Urban Planning and Design

Contributors: Chudoba, M.

Number of pages: 1

Pages: 38

Publication date: Nov 2019

Peer-reviewed: Unknown

#### Publication information

Journal: Arkkitehtiutiset

Issue number: 11

ISSN (Print): 0044-8915

Original language: Finnish

URLs:

[http://www.e-julkaisu.fi/SAFA/au\\_arkkitehtiutiset/11-2019/mobile.html#pid=38](http://www.e-julkaisu.fi/SAFA/au_arkkitehtiutiset/11-2019/mobile.html#pid=38) (Link to publication page. )

Research output: Contribution to journal > Article > Professional

**Asukaskeskeisyys asuntorakentamisen haasteena: kommunikatiivisesta kuilusta yhteistyöhön? Miten saataisiin asuntotarjontaa, joka palvelisi nykyistä paremmin asukkaita?**

#### General information

Publication status: Published  
MoE publication type: D1 Article in a trade journal  
Organisations: Architecture, Research group: ASUTUT  
Contributors: Saarimaa, S., Nieminen, N.  
Number of pages: 32  
Pages: 28-29  
Publication date: 15 Oct 2019  
Peer-reviewed: Unknown

#### Publication information

Journal: ARA Viesti, Asumisen rahoitus- ja kehittämiskeskus (ARA)  
Volume: 2/2019  
ISSN (Print): 2343-1520  
Original language: Finnish  
URLs:  
<https://www.ara.fi/fi-FI/Tietopankki/ARAviesti>  
Research output: Contribution to journal › Article › Professional

#### Professional Association of Architects of Cantabria: Centro Cívico Municipal de Boecillo (Valladolid)

Built work 'Municipal Civic Centre in Boecillo (Valladolid)' exhibited and published in catalogue at '50 Anniversary ETSAVA (School of Architecture in Valladolid). Time and Architecture' exhibition at Professional Association of Architects of Cantabria (COACAN)

#### General information

Publication status: Published  
MoE publication type: F2 Public partial realisation of a work of art  
Organisations: Architecture, Universidad de Valladolid  
Contributors: Martínez Rodríguez, J. M., Escudero Conesa, I., Nieto Fernandez, F.  
Publication date: 1 Oct 2019  
Media of output: Print

#### Event information

Event: Time and Architecture  
Location: Professional Association of Architects in Cantabria (COACAN), Santander, Spain  
ASJC Scopus subject areas: Architecture  
URLs:  
<http://www.arquitectura.uva.es/2019/10/03/01-10-19-inauguracion-de-exposicion-tiempo-y-arquitectura-en-el-colegio-oficial-de-arquitectos-de-cantabria/>  
Research output: Artistic and non-textual form › Exhibition › Art in coproduction › peer-review

#### Tampere City Region 2040+. Regional factors of well-being.

Publication of Urban Planning and Design IV, Fall 2019

#### General information

Publication status: Published  
MoE publication type: D4 Published development or research report or study  
Organisations: Architecture, Research group: Urban Planning and Design  
Contributors: Koskinen, A. (ed.), Lehtovuori, P. (ed.), Rantanen, A. (ed.), Vanhatalo, J. (ed.)  
Number of pages: 112  
Publication date: Oct 2019

#### Publication information

Place of publication: Tampere  
Publisher: Tampere University  
ISBN (Print): 978-952-03-1390-6  
ISBN (Electronic): 978-952-03-1391-3  
Original language: English  
URLs:  
<https://mal-verkosto.fi/wp-content/uploads/2019/12/TampereCityRegion2040.pdf>  
Research output: Book/Report › Commissioned report › Professional

## Monimuotoistuva kaupungistuminen.

### General information

Publication status: Published  
MoE publication type: E1 Popularised article, newspaper article  
Organisations: Architecture  
Contributors: Hynynen, A.  
Publication date: 30 Sep 2019  
Peer-reviewed: Unknown

### Publication information

Journal: Sanomalehti Ilkka  
Original language: Finnish  
URLs:  
<https://www.ilkka.fi/mielipide/yleisolta/lukijoilta-monimuotoistuva-kaupungistuminen-1.3103118>  
Research output: Contribution to journal › Comment/debate › General public

### Tulevaisuuskatsaus eräiden maiden alueidenkäytön suunnittelujärjestelmiin

Tulevaisuuskatsaus tarkastelee lakitekstien ja tutkimuskirjallisuuden nojalla kahdeksan eurooppalaisen maan suunnittelujärjestelmiä: Englanti, Hollanti, Norja, Ranska, Ruotsi, Saksa, Skotlanti ja Tanska. Raporttia varten on tehty myös kansainvälisen asiantuntijakysely.

Katsauksen tarkoituksena on muodostaa käsitys näiden Suomen kannalta relevanttien Euroopan maiden suunnittelujärjestelmien kehityksestä, lähitulevaisuuden muutoksista ja tunnistetuista muutostarpeista. Katsaus hahmottaa ja vertailee muutosten suuntaa näissä maissa ja nostaa esille olennaisimmat kiinnostavat opit Suomen kannalta. Tavoitteena on tukea meneillään olevaa maankäyttö- ja rakennuslain uudistusta ja Suomen suunnittelujärjestelmän kehitystyötä.

Maakuvauksissa on pyritty vertailtavuuteen, vaikkakaan suunnittelukulttuuriltaan ja juridiselta perinteeltään erilaisia maita ei ole mahdollista puristaa yhteen muottiin. Kaikista maista on nostettu esille 1) hallinnan tehtävä, rakenne ja ohjaustasot, 2) aikajana lainsäädännön viimeaikaisista muutoksista, 3) kaavoitus- menettelyn nykytilanne, 4) tunnistetut suunnittelujärjestelmän ja säädösten uudistustarpeet, 5) keskeiset muutostekijät ja 6) yhteenveto Suomen kannalta. Ranskan suunnittelujärjestelmästä ja sen muutoksesta on kirjoitettu muita maita perusteellisemmin, koska Ranskan järjestelmä on kiinnostava mutta Suomessa suhteellisen huonosti tunnettu.

Tulevaisuuskatsauksen yhteenvedossa pohditaan sitä, missä Suomi on ja voisi olla edelläkävijä maankäytön suunnittelussa ja sen sääntelyssä. Näitä mahdollisuuksia on erityisesti kaupunkiseutujen tunnistamisessa suunnittelujärjestelmän toimijoina, kaavoituksen asiakaslähtöisyydessä ja digitalisaatiossa sekä ilmastonmuutokseen varautumisen ja sen hillinnän ymmärtämisessä maankäytön ja kaupunkiprosessien ajurina. Ilmastokysymyksen sosiaalinen ulottuvuus on syytä hahmottaa osana suunnittelupolitiikkaa.

### General information

Publication status: Published  
MoE publication type: D4 Published development or research report or study  
Organisations: Architecture, Research group: Urban Planning and Design, Demos Helsinki, Aalto University  
Contributors: Lehtovuori, P., Ari, E., Kuusela, K., Rantanen, A., Rajaniemi, J., Schmidt-Thomé, K.  
Number of pages: 150  
Publication date: 5 Sep 2019

### Publication information

Place of publication: Helsinki  
Publisher: Ympäristöministeriö  
Volume: 2019  
Edition: 24  
ISBN (Electronic): 978-952-361-031-6  
Original language: Finnish

### Publication series

Name: Ympäristöministeriön julkaisuja  
Volume: 2019  
No.: 24  
ISSN (Electronic): 2490-1024  
URLs:  
<http://urn.fi/URN:ISBN:978-952-361-031-6>  
Research output: Book/Report › Commissioned report › Professional

## **Endocrine disruption and commensal bacteria alteration associated with gaseous and soil PAH contamination among daycare children**

Polycyclic aromatic hydrocarbons (PAHs) are priority environmental pollutants that cause adverse health effects. PAHs belong to endocrine signaling disruptors to which children are sensitive to. Recent evidence suggests that PAH pollution alters the abundance of environmental bacteria that is associated with health outcomes. The alteration of environmental and commensal microbiota by PAH pollution has never been connected to endocrine signaling pathways. To estimate the risk of endocrine disruption in daycare children, we measured PAHs from soil and air of eleven urban daycare centres in Finland. We analyzed daycare yards' soil and children's gut and skin bacterial communities with 16S rRNA gene metabarcoding and used Kyoto Encyclopaedia of Genes and Genomes database to categorize endocrine signaling pathways. We also assessed the PAH hazard to children's health based on the current risk assessments. We observed associations between signaling pathways in endocrine system and gaseous PAH levels in ambient air. Peroxisome proliferator-activated receptor and adipocytokine signaling pathway decreased with higher chrysene concentration in the air. Soil PAH contamination was associated with altered Actinobacteria, Bacteroidetes and Proteobacteria communities on children's skin and in daycare yard soil. However, adjusted genera were not the same in soil and on skin, with the exception of *Mycobacterium* that was associated with higher PAH concentrations both in soil and on the skin. Even though fluoranthene levels were above the current threshold values, total PAHs were below safety threshold values and based on current risk assessments there is a minor risk for child health. Our findings indicate that PAH concentrations that are considered safe may interfere with endocrine signaling by commensal microbiota and alter both environmental and commensal bacterial communities. The imbalance in human microbiota and the decrease in signaling pathways may contribute to emerging public health problems, including inflammatory disorders, obesity and diabetes. Therefore, the optimal risk assessments of PAHs and theoretically also other contaminants shaping commensal microbiota may need to take into account the possibility of the disruption of endocrine signaling pathways.

### **General information**

Publication status: Published

MoE publication type: A1 Journal article-refereed

Organisations: Architecture, University of Helsinki, Tampere University of Applied Sciences

Contributors: Roslund, M. I., Rantala, S., Puhakka, R., Hui, N., Parajuli, A., Rantalainen, A. L., Sinkkonen, A., Grönroos, M., Soininen, L., Yan, G., Oikarinen, S., Laitinen, O. H., Hyöty, H., Nurminen, N., Kalvo, R., Rajaniemi, J.

Publication date: 1 Sep 2019

Peer-reviewed: Yes

### **Publication information**

Journal: Environment International

Volume: 130

Article number: 104894

ISSN (Print): 0160-4120

Ratings:

Scopus rating (2019): CiteScore 9.9 SJR 2.357 SNIP 2.242

Original language: English

ASJC Scopus subject areas: Environmental Science(all)

Electronic versions:

1-s2.0-S0160412019312206-main

DOIs:

10.1016/j.envint.2019.06.004

URLs:

<http://urn.fi/URN:NBN:fi:tty-201906241901>

Source: Scopus

Source ID: 85067226479

Research output: Contribution to journal > Article > Scientific > peer-review

## **From Marginal to Mainstream? Analysing Translations between the Collaborative Housing Niche and the Established Housing Sector in Finland**

This paper focuses on the interaction between collaborative housing projects and the established housing sector. While collaborative housing is increasingly seen as a promising housing model, its impact on the wider housing system has remained under researched. This paper traces translations between the two domains. Drawing on the transition theory, it views collaborative housing as a grassroots niche challenging the culture, structures, and practices of the dominant housing system. The evidence from three Finnish cases shows that while the established housing sector may adopt niche ideas and move the goal posts, structural and practical barriers remain and make the diffusion of collaborative housing difficult.

### **General information**

Publication status: Published

MoE publication type: A1 Journal article-refereed  
Organisations: Architecture  
Contributors: Helamaa, A.  
Number of pages: 18  
Pages: 364-381  
Publication date: Sep 2019  
Peer-reviewed: Yes

#### Publication information

Journal: BUILT ENVIRONMENT  
Volume: 45  
Issue number: 3  
ISSN (Print): 0263-7960  
Ratings:  
Scopus rating (2019): CiteScore 2 SJR 0.444 SNIP 0.565  
Original language: English  
DOIs:  
10.2148/benv.45.3.364  
Research output: Contribution to journal › Article › Scientific › peer-review

### Seinäjoen Huhtala: Yhdyskuntasuunnittelun ammattikurssi 1 2019

#### General information

Publication status: Published  
MoE publication type: D4 Published development or research report or study  
Organisations: Architecture, Research group: Urban Planning and Design  
Contributors: Rajaniemi, J. (ed.), Chudoba, M. (ed.), Luotinen, E. (ed.)  
Number of pages: 117  
Publication date: Sep 2019

#### Publication information

Place of publication: Tampere  
Publisher: Tampereen yliopisto. Arkkitehtuuri  
ISBN (Print): 978-952-03-1037-0  
ISBN (Electronic): 978-952-03-1038-7  
Original language: Finnish  
URLs:  
<http://urn.fi/URN:ISBN:978-952-03-1038-7>  
Research output: Book/Report › Commissioned report › Professional

### Suurten puurakenteiden arkkitehtoniset ominaisuudet

Tämän tutkimuksen lähtökohtana on ollut tarkastella suomalaista suurten puurakenteiden tilannetta suhteessa vastaavaan ulkomaiseen puurakentamiseen. Tämä on tärkeää, koska puurakentaminen on lisääntynyt merkittävästi viime vuosikymmenen aikana. Monet puurakennushankkeet, kuten uudet puukaupunkialueet, konserttitalot, koulut, päiväkodit, toimisto- ja asuinrakennukset, osoittavat, että puuta osataan Suomessa hyödyntää jo sekä rakennusteknisesti että arkkitehtonisesti ansiokkaasti. Selvästi parannettavaa on kuitenkin hallirakennuksissa ja niiden arkkitehtonisessa muodonannossa. Verrattuna moniin ulkomaisiin puurakenteisiin halleihin suomalaiset toteutukset vaikuttavat usein teollisuus- tai varastohalleilta. Näistä lähtökohdista tutkimuksen tavoitteeksi muotoutui sen selvittäminen, mitkä tekijät vaikuttavat suurten puurakenteiden arkkitehtoniseen muodonantoon.

Tutkimus on luonteeltaan käytäntöä painottava, mikä tarkoittaa yleistäen sitä, että arkkitehti pyrkii tutkimuksen keinoin reflektoimaan omaa käytäntöään, jäsentämään sitä teoreettisesti ja palaamaan tutkimuksen lopussa takaisin käytäntöön. Tutkimus eteni suurten puurakennusjärjestelmien luokituksen ja puurakenteiden historiallisen katsauksen jälkeen teoreettiseen pohdintaan suurten puurakenteiden arkkitehtonisen muodon ominaisuuksista. Näitä ominaisuuksia käytettiin apuna empiirisessä tutkimusvaiheessa, jossa kohteena olivat eräät, lähinnä ulkomaiset puurakenteiset kohteet. Lopuksi näiden kaikkien perustalta päädyttiin konkreettiseen suunnitelmaan, jossa kokeiltiin, miten suuria puurakenteita voidaan käyttää arkkitehtonisen ilmaisun välineenä.

Historiallisessa katsauksessa tuotiin esiin, kuinka pitkä perinne puurakenteiden käytöllä esimerkiksi Euroopassa on ja kuinka rakennustekninen kehitys on kunakin aikakautena heijastunut puurakenteiden arkkitehtoniseen ilmaisuun. Puurakennusjärjestelmät ryhmiteltiin yhdeksään ryhmään: (1) palkkeihin ja pilareihin, (2) yhdistettyihin palkkeihin, (3) saubarakenteisiin, (4) ristikkorakenteisiin, (5) keihin ja kaariin, (6) avaruusristikoihin, (7) kupoleihin, (8) kuorirakenteisiin sekä (9) riippurakenteisiin ja ketjutettuihin rakenteisiin. Eri järjestelmille todettiin olevan luontaista tietyt massan, poikkileikkauksen ja pohjan muodot.

Puurakenteiden arkkitehtonisen muodon ominaisuuksia tutkittiin arkkitehtonisen tilan, massan ja pinnan kannalta. Tarkasteltavaksi tulivat muodon kokoonpano, muodon hahmo, muodon suhteet, pinnan kudotus, muodon havaittavuus ja visuaalinen tasapaino. Arkkitehtonisia muodon ominaisuuksia tarkasteltiin myös merkittävien ulkomaisten puurakennuskohteiden avulla. Kohteita analysoitiin ja niiden suunnittelijoita haastateltiin. Tarkastelukohteiden havainnointit ja suunnittelijoiden haastattelut osoittivat, että ne arkkitehtonisen muodon ominaisuudet, joita teoriaosuudessa selvitetiin, toteutuivat näissä kohteissa monenlaisina ja vakuuttavina variaatioina. Haastattelujen perusteella voidaan olettaa, että muodon ominaisuuksien tietoisella käsittelyllä voidaan hallita suurten puurakenteiden arkkitehtonisia muodonannon perusteita entistä paremmin, mikä on välttämätöntä niiden arkkitehtonisen laadun kehittämiseksi.

Näistä teoreettisista pohdinnoista ja empiirisistä havainnoista tutkimus eteni lopulta takaisin suunnittelukäytäntöön. Tavoitteena oli palauttaa tutkimuksen aikana tuotettu tieto takaisin käytäntöön. Käytäntöä edustaa tässä teoreettinen suunnittelutilanne. Suunnittelun kohteena oli puurakenteinen uimahalli. Suunnitteluprosessi osoitti, ettei suunnittelu voi edetä systemaattisesti muodon ominaisuudesta toiseen, vaan työ edellyttää jokaisen yksittäisen muodon ominaisuuden kohdalla pohdintaa tämän vaikutuksista kohteen muihin ominaisuuksiin. Suunnittelu -luovana prosessina- pysyy näiltä osin tunnustelevana ja vaatii aina myös intuitiivista otetta.

Tässä tutkimuksessa on tarkasteltu myös tutkimuksen ajankäytöstä suhteessa aineiston- keruuhetkeen (2003-2006) ja nykyhetkeen. Tämän tarkastelun tulos on, että tutkimus on edelleen tärkeä ja käyttökelpoinen Suomessa, mikä lisää työn merkittävyyttä. Tutkimus on suunnattu ensisijaisesti suunnittelijoille Suomessa, mutta ilmeistä on, että tässä työssä esitettyjä tai siitä sovellettavia ajatuksia on mahdollista käyttää vuorovaikutuksessa tilaajan, rakennuttajan, käyttäjän, muiden suunnittelijoiden, viranomaisten tai rakentajan kanssa.

### General information

Publication status: Published  
MoE publication type: G4 Doctoral dissertation (monograph)  
Organisations: Architecture  
Contributors: Eskolin, J.  
Number of pages: 182  
Publication date: 30 Aug 2019

### Publication information

Volume: 105  
ISBN (Print): 978-952-94-2190-9  
ISBN (Electronic): 978-952-03-1194-0  
Original language: Finnish

### Publication series

Name: Tampere University Dissertations  
No.: 105  
ISSN (Electronic): 2490-0028  
URLs:  
<http://urn.fi/URN:ISBN:978-952-03-1194-0>  
Research output: Book/Report › Doctoral thesis › Monograph

### Urbanismi voimavarana. Kaupungistumisen näkymiä provinssissa.

Kaupungistuminen on maailmanlaajuinen vahva megatrendi, joka liitetään ilmiönä useimmiten suurkaupunkeihin. Helposti unohtuu urbanisaation hennompi prosessi, joka muokkaa pienempiä kaupunkeja ja yhdyskuntia sekä näitä ympäröivää maaseutua. Vaikka tämän tyyppinen muutos ei ole määrällisesti tarkasteltuna yhtä kiinnostava, se avaa tärkeitä näkökulmia yhdyskuntien laadulliseen muutokseen ja sen hallintaan.

Biotalous ja digitalisaatio ovat esimerkkejä vahvistuvista muutosajureista. Ne tulevat muokkaamaan kaupunkielämää, -taloutta, -tilaa ja -rakennetta tavoilla, joita tunnemme toistaiseksi huonosti. On myös mahdollista, että keskittyminen suurille kaupunkiseuduille laukaisee vastaliikkeen, jossa arvostetaan puhtautta, hiljaisuutta ja turvallisuutta. Tällaisia laatuja haetaan yleensä pienemmistä yhdyskunnista.

Tarkastelemme Etelä-Pohjanmaan yhdyskuntakehityksen muutosnäkymiä eri mittakaavoissa. Alavudella on mahdollisuuksia omaperäiseen pikkukaupunkiurbanismiin, jota tarvitaan vastapainoksi kaupan ja liikenteen aiheuttamille yhdyskuntarakenteen muutoksille. Suomalaisittain keskikokoinen Seinäjoki pyrkii isojen keskusten joukkoon kaupunkistrategialla, joka konkretisoituu kunnianhimoisina keskustauduistuksina. Tulevaisuudessa maaseutu ja kaupunki voidaan liittää myös monitasoisesti, tavalla, joka rikastaa "Ruokaprovinssin" pääkaupunkiseutua aivan uusilla laatumääreillä.

Urbanisaatiotrendien, paikallisen potentiaalin ja yllättävien kehityskulkujen yhdistelmä on vaikea pala yhdyskuntasuunnittelulle. Valmiin lopputilanteen sijaan suunnittelussa on kyettävä määrittämään sopivan väljät kehykset, joissa halutut laatuominaisuudet voivat toteutua. Tätä voi nimittää vaikkapa robustiksi suunnitteluksi.

### General information

Publication status: Published

MoE publication type: D2 Article in professional manuals or guides or professional information systems or text book material

Organisations: Architecture, Research group: Urban Laboratory, Research group: Urban Planning and Design

Contributors: Hynynen, A., Rantanen, A.

Pages: 51-64

Publication date: 19 Aug 2019

### Host publication information

Title of host publication: Tehtävä Etelä-Pohjanmaalla!

Publisher: Etelä-Pohjanmaan liitto

Editors: Riukulehto, S., Harjunpää, N.

ISBN (Print): 978-951-766-375-5

ISBN (Electronic): 978-951-766-376-2

### Publication series

Name: Kytösavut

Publisher: Etelä-Pohjanmaan liitto

Volume: XX

ISSN (Electronic): 0788-1223

URLs:

[https://epliiitto.fi/images/D\\_5\\_Tehtava\\_Etela-Pohjanmaalla.pdf](https://epliiitto.fi/images/D_5_Tehtava_Etela-Pohjanmaalla.pdf)

Research output: Chapter in Book/Report/Conference proceeding > Chapter > Professional

### Greening of Daycare Yards with Biodiverse Materials Affords Well-Being, Play and Environmental Relationships

Nature contacts are recognized as positively contributing to humans' health and well-being. Although there have been projects to green daycare or schoolyards, yard greening and microbial biodiversity have never been studied simultaneously. We asked whether simultaneously increasing biodiversity exposure and greening urban daycare yards affects 3–5 years-old children's physical activity and play, their environmental relationships, and their perceived well-being. For transforming six daycare yards in Finland, we used a forest floor with high biodiversity, sod, peat blocks, and planters for vegetable and flower growing. We used qualitative interview and survey-based data collected from the daycare personnel and parents to analyze how green yards encourage children's engagement with their everyday life-worlds. We identified the functional possibilities provided by the yards and the dynamic aspects related to the greening. Green, biodiverse yards were considered safe, and inspired children's play, diversified their activities, and increased physical activity. The greenery offered embodied experiences of nature and provided the children with multi-sensory exploration and diverse learning situations. The dynamic and emotional ways of engaging with the natural environment increased their well-being. The activities related to caring for the yards and exploring them promoted the development of environmental relationships. The results can be used for designing health-enhancing yards.

### General information

Publication status: Published

MoE publication type: A1 Journal article-refereed

Organisations: Architecture, University of Lapland, University of Helsinki, University of Tampere

Contributors: Puhakka, R., Rantala, O., Roslund, M. I., Rajaniemi, J., Laitinen, O., Sinkkonen, A., ADELE Research Group

Number of pages: 16

Publication date: 16 Aug 2019

Peer-reviewed: Yes

### Publication information

Journal: International Journal of Environmental Research and Public Health

Volume: 16

Issue number: 16

Article number: 2948

ISSN (Print): 1661-7827

Ratings:

Scopus rating (2019): CiteScore 3 SJR 0.739 SNIP 1.248

Original language: English

ASJC Scopus subject areas: Environmental Science (miscellaneous)

Keywords: affordance; children; well-being; physical activity; environmental relationship; green space; biodiversity

Electronic versions:

[ijerph-16-02948](https://doi.org/10.3390/ijerph16-02948)

DOIs:

[10.3390/ijerph16162948](https://doi.org/10.3390/ijerph16162948)

URLs:

<http://urn.fi/URN:NBN:fi:tuni-201909203432>

Research output: Contribution to journal › Article › Scientific › peer-review

## **Void conditions and potential for mould growth for insulated and uninsulated suspended timber ground floors**

### **Purpose**

Millions of properties have suspended timber ground floors globally, with around ten million in the UK alone. However, it is unknown what the floor void conditions are, nor the effect of insulating such floors. Upgrading floors changes the void conditions, which might increase or decrease moisture build-up and mould and fungal growth. The purpose of this paper is to provide a review of the current global evidence and present the results of in situ monitoring of 15 UK floor voids.

### **Design/methodology/approach**

An extensive literature review on the moisture behaviour in both uninsulated and insulated suspended timber crawl spaces is supplemented with primary data of a monitoring campaign during different periods between 2012 and 2015. Air temperature and relative humidity sensors were placed in different floor void locations. Where possible, crawl spaces were visually inspected.

### **Findings**

Comparison of void conditions to mould growth thresholds highlights that a large number of monitored floor voids might exceed the critical ranges for mould growth, leading to potential occupant health impacts if mould spores transfer into living spaces above. A direct comparison could not be made between insulated and uninsulated floors in the sample due to non-random sampling and because the insulated floors included historically damp floors. The study also highlighted that long-term monitoring over all seasons and high-resolution monitoring and inspection are required; conditions in one location are not representative of conditions in other locations.

### **Originality/value**

This study presents the largest UK sample of monitored floors, evaluated using a review of current evidence and comparison with literature thresholds.

### **General information**

Publication status: Published

MoE publication type: A1 Journal article-refereed

Organisations: Architecture, Research group: ASUTUT, Katholieke Universiteti Leuven, Belgium, 20.01.2010, University College London

Contributors: Pelsmakers, S., Vereecken, E., Airaksinen, M., Elwell, C.

Pages: 395-425

Publication date: 12 Aug 2019

Peer-reviewed: Yes

### **Publication information**

Journal: International Journal of Building Pathology and Adaptation

Volume: 37

Issue number: 4

ISSN (Print): 2398-4708

Ratings:

Scopus rating (2019): CiteScore 1.8 SJR 0.434 SNIP 1.113

Original language: English

DOIs:

10.1108/IJBPA-05-2018-0041

Research output: Contribution to journal › Article › Scientific › peer-review

## **Vanhan korjaaminen on ekologista rakentamista**

### **General information**

Publication status: Published

MoE publication type: E1 Popularised article, newspaper article

Organisations: Architecture, Research group: Built Environment in Transition, Suomen Arkkitehtiliitto SAFA

Contributors: Helander, H., Huuhka, S.

Publication date: 6 Jul 2019

Peer-reviewed: Unknown



### Publication information

Journal: Helsingin sanomat  
Volume: 2019  
Issue number: 178  
ISSN (Print): 0355-2047  
Original language: Finnish  
URLs:

<https://www.hs.fi/mielipide/art-2000006164301.html>

Research output: Contribution to journal > Article > General public

### Pieni ja keskisuuri urbanismi kaupunkikehittämisen voimavarana.

#### General information

Publication status: Published  
MoE publication type: A1 Journal article-refereed  
Organisations: Architecture  
Contributors: Hynynen, A., Rantanen, A.  
Pages: 101-116  
Publication date: 19 Jun 2019  
Peer-reviewed: Yes

#### Publication information

Journal: Alue ja Ympäristö  
Volume: 48  
Issue number: 1  
ISSN (Print): 1235-4554  
Original language: Finnish  
Electronic versions:  
77858-Artikkelin teksti-122546-1-10-20190619  
DOIs:  
10.30663/ay.77858  
URLs:

<http://urn.fi/URN:NBN:fi:tty-201908232005>

Research output: Contribution to journal > Article > Scientific > peer-review

### Vantaa Multipurpose Ice Arena

#### General information

Publication status: Published  
MoE publication type: D1 Article in a trade journal  
Organisations: Architecture  
Contributors: Karjalainen, M.  
Number of pages: 6  
Pages: 66-71  
Publication date: 10 Jun 2019  
Peer-reviewed: Unknown

#### Publication information

Journal: Puu-lehti  
Volume: 39  
Issue number: 2  
ISSN (Print): 0357-9484  
Original language: Finnish  
URLs:

<https://proofer.faktor.fi/epaper/Puu219/>

Research output: Contribution to journal > Article > Professional

### Built environment determinants of pedestrians' and bicyclists' route choices on commute trips: Applying a new grid-based method for measuring the built environment along the route

To better understand the role of the built environment in route choices among pedestrians and bicyclists, this study explores the built environment distribution along commute routes in two neighbourhoods in Tampere, Finland. A new grid-based method is developed to enable a more sophisticated analysis of the built environment along the route. The data consist of 73 commute routes collected with the Sports Tracker® smartphone application, of which 18 are made by foot and 55 by bicycle. To find the most relevant spatial scale, the values of each built environment variable are calculated with

five buffer sizes for each cell of the grid covering the research area. Five statistics describing the distribution of the built environmental variables along each shortest and actual route are then calculated and compared. The results show that besides determining whether a significant association is found, different spatial scales for the analysis produce dissimilar findings in strength and even the direction of the correlations found. The most significant associations are found mainly with the smallest buffer (15m). Of the five built environment statistics calculated, the mean value of most built environmental variables had the most consistent correlation with route choice. Also, standard deviation and the third quartile of several built environmental variables along the routes correlate with route choice. The most significant associations with route choice are found with intersection density, institutional land use, slope, and age of buildings.

#### General information

Publication status: Published  
MoE publication type: A1 Journal article-refereed  
Organisations: Architecture  
Contributors: Sarjala, S.  
Number of pages: 14  
Pages: 56-69  
Publication date: 1 Jun 2019  
Peer-reviewed: Yes

#### Publication information

Journal: JOURNAL OF TRANSPORT GEOGRAPHY  
Volume: 78  
ISSN (Print): 0966-6923  
Ratings:  
Scopus rating (2019): CiteScore 6.6 SJR 1.777 SNIP 2.147  
Original language: English  
ASJC Scopus subject areas: Geography, Planning and Development, Transportation, Environmental Science(all)  
Keywords: Active transport, built environment, commute, GIS, GPS, route choice  
DOIs:  
10.1016/j.jtrangeo.2019.05.004  
Source: Scopus  
Source ID: 85066158071  
Research output: Contribution to journal › Article › Scientific › peer-review

#### El origen del 'sueño' de la arquitectura de cristal: Una aproximación

The history of glass architecture has been animated by a 'dream', stimulated by the particular interaction properties of this material with light. The article approaches to the genesis of that dream and its first manifestations, in the form of legends about fantastic glass buildings, transcribed in sacred or literary texts. It refers also to the architectures in which it has been materialized and some of the architects it has inspired. We conclude that the survival of this dream in time is due to the capacity granted to glass as a way to access indistinctly to 'anagogies' (elevation and alienation of the soul by the contemplation of 'divine' things), whether religious or secular.

#### General information

Publication status: Published  
MoE publication type: A1 Journal article-refereed  
Organisations: Architecture  
Contributors: Rubio Hernandez, R.  
Number of pages: 15  
Pages: 123-137  
Publication date: 1 Jun 2019  
Peer-reviewed: Yes

#### Publication information

Journal: Constelaciones  
Issue number: 7  
ISSN (Print): 2340-177X  
Original language: Spanish  
ASJC Scopus subject areas: Arts and Humanities(all)  
Keywords: Architecture, Crystal, Glass, Light, Sun, Divinity, Medieval literature, Sacred texts, anagogy  
URLs:  
<https://revistaconstelaciones.wordpress.com/2019/05/15/el-origen-del-sueno-de-la-arquitectura-de-cristal-una-aproximacion/>  
Research output: Contribution to journal › Article › Scientific › peer-review

## Introduction

### General information

Publication status: Published  
MoE publication type: B1 Article in a scientific magazine  
Organisations: Architecture, Research group: Architecture: History and Theory  
Contributors: Havik, K., Passinmäki, P.  
Number of pages: 5  
Pages: 7-11  
Publication date: Jun 2019  
Peer-reviewed: No

### Publication information

Journal: DATUTOP  
Issue number: 38  
ISSN (Print): 0359-7105  
Original language: English  
Electronic versions:  
Havik and Passinmaki\_Introduction  
URLs:  
<http://urn.fi/URN:NBN:fi:tuni-202001241511>  
URLs:  
<http://urn.fi/URN:ISBN:978-952-03-1114-8> (Host publication)  
Research output: Contribution to journal › Editorial › Scientific

## Technology, Focality and Place: On the Means and Goals of Architecture

### General information

Publication status: Published  
MoE publication type: A3 Part of a book or another research book  
Organisations: Architecture  
Contributors: Passinmäki, P.  
Number of pages: 34  
Pages: 64-97  
Publication date: Jun 2019

### Host publication information

Title of host publication: Understanding and Designing Place - Considerations on Architecture and Philosophy  
Publisher: Tampere University, School of Architecture  
Editors: Passinmäki, P., Havik, K.  
ISBN (Print): 978-952-03-1113-1  
ISBN (Electronic): 978-952-03-1114-8

### Publication series

Name: DATUTOP  
Volume: 38  
ISSN (Print): 0359-7105  
Electronic versions:  
Passinmäki\_Technology Focality and Place\_On the Means and Goals of Architecture  
URLs:  
<http://urn.fi/URN:NBN:fi:tuni-201909263509>  
URLs:  
<http://urn.fi/URN:ISBN:978-952-03-1114-8> (Host publication)  
Research output: Chapter in Book/Report/Conference proceeding › Chapter › Scientific › peer-review

## Understanding and Designing Place - Considerations on Architecture and Philosophy

### General information

Publication status: Published  
MoE publication type: C2 Edited books  
Organisations: Architecture, Delft University of Technology  
Contributors: Passinmäki, P. (ed.), Havik, K. (ed.)  
Number of pages: 144  
Publication date: Jun 2019

### Publication information

Place of publication: Tampere  
Publisher: Tampere University, School of Architecture  
ISBN (Print): 978-952-03-1113-1  
ISBN (Electronic): 978-952-03-1114-8  
Original language: English

### Publication series

Name: DATUTOP  
Volume: 38  
ISSN (Print): 0359-7105  
Electronic versions:  
DATUTOP 38\_Understanding and Designing Place - Considerations on Architecture and Philosophy (2019)  
URLs:  
<http://urn.fi/URN:ISBN:978-952-03-1114-8>

### Bibliographical note

EXT="Havik, Klaske"  
jufoid=54540  
Research output: Book/Report > Anthology > Scientific > peer-review

### Museum of the University of Valladolid: Centro Cívico Municipal de Boecillo (Valladolid)

Built work 'Municipal Civic Centre in Boecillo (Valladolid)' exhibited and published in catalogue at '50 Anniversary ETSAVA (School of Architecture in Valladolid). Time and Architecture' exhibition at Museum of the University of Valladolid (MUVa)

### General information

Publication status: Published  
MoE publication type: F2 Public partial realisation of a work of art  
Organisations: Architecture, Universidad de Valladolid  
Contributors: Martínez Rodríguez, J. M., Escudero Conesa, I., Nieto Fernandez, F.  
Publication date: 7 May 2019  
Media of output: Print

### Event information

Event: Time and Architecture  
Location: Museum University of Valladolid (MUVa), Valladolid, Spain  
ASJC Scopus subject areas: Architecture  
URLs:  
<http://www.arquitectura.uva.es/2019/05/01/07-05-19-acto-de-homenaje-a-directores-etsava-e-inauguracion-de-exposicion-tiempo-y-arquitectura/>  
Research output: Artistic and non-textual form > Exhibition > Art in coproduction > peer-review

### Architectural potential of deconstruction and reuse in declining mass housing estates

In Western Europe, many large housing estates have experienced spirals of intertwined physical and social decline. Such estates have wound up at the bottom of the housing hierarchy, which is manifested as high turnovers and vacancies. This qualitative multi-case study contributes to the research on the sustainable management of declining neighbourhoods' housing stocks. The study learns from four individual cases in which vacancies were tackled with an extreme architectural transformation. In the investigated cases, large-panel buildings were partially deconstructed and renovated, and the reclaimed concrete panels were reused for new construction nearby. The approach integrates demolition, renovation and new construction – the three characteristic building stock management strategies in disadvantaged neighbourhoods. The cases are located in Sweden (Gothenburg, 1984), the Netherlands (Middelburg, 1986), Germany (Berlin, 2004) and Finland (Raahe, 2010). Deconstruction was the landlords' way to manage their assets in the face of vacancies and social problems in relatively young, unamortized buildings. The projects proved technically feasible, yet they have been criticised for their economic and social implications. Nonetheless, the approach seems to have contributed to extending the life cycles of the buildings in question, and it has the potential to improve the quality of life in large housing estates.

### General information

Publication status: Published  
MoE publication type: A1 Journal article-refereed  
Organisations: Architecture, Research group: Built Environment in Transition, Technische Universität Berlin, Chalmers University of Technology  
Contributors: Huuhka, S., Naber, N., Asam, C., Caldenby, C.  
Pages: 139-179  
Publication date: 26 Apr 2019

Peer-reviewed: Yes

#### Publication information

Journal: Nordic Journal of Architectural Research

Volume: 31

Issue number: 1

ISSN (Print): 1893-5281

Original language: English

Keywords: adaptation measures, disadvantaged housing estates, deconstruction, mass housing, partial demolition, prefabricated concrete, renovation, reuse

Electronic versions:

Huuhka\_Naber\_Asam\_Caldenby

URLs:

<http://arkitekturforskning.net/na/article/view/1173>

<http://urn.fi/URN:NBN:fi:ty-201905291749>

Research output: Contribution to journal › Article › Scientific › peer-review

**Tutkimus suomalaisten asuinpuukerrostalojen runkoratkaisuista ja asuntojen omistusmuodoista: Research on framing solutions and home ownership of wood apartment buildings in Finland.**

#### General information

Publication status: Published

MoE publication type: D1 Article in a trade journal

Organisations: Architecture, Research group: Built Environment in Transition

Contributors: Karjalainen, M.

Number of pages: 5

Pages: 60-64

Publication date: 21 Feb 2019

Peer-reviewed: Unknown

#### Publication information

Journal: Puu-lehti

Volume: 39

Issue number: 1

ISSN (Print): 0357-9484

Original language: Finnish

URLs:

<https://proofer.faktor.fi/epaper/Puu119/>

Research output: Contribution to journal › Article › Professional

**CLT- ja LVL-tilaelementtiratkaisut yleistyvät puukerrostalorakentamisessa: Tampereen yliopiston arkkitehtuurin yksikkö selvitti CLT- ja LVL-tilaelementtiratkaisut yleistyvät puukerrostalorakentamisessa**

#### General information

Publication status: Published

MoE publication type: D1 Article in a trade journal

Organisations: Architecture, Research group: Built Environment in Transition

Contributors: Karjalainen, M.

Number of pages: 3

Pages: 23-25

Publication date: 30 Jan 2019

Peer-reviewed: Unknown

#### Publication information

Journal: Puumies

Volume: 64

Issue number: 1

ISSN (Print): 0355-953X

Original language: Finnish

Research output: Contribution to journal › Article › Professional

**Aluekehittäminen monivärikuvassa. Aluekehittämispäätöksen valmistelun työpäperi. Työ- ja elinkeinoministeriö.**

### General information

Publication status: Published

MoE publication type: D4 Published development or research report or study

Organisations: Architecture, Research group: Urban Laboratory, Luonnonvarakeskus, Helsingin yliopisto, Tampere University

Contributors: Vihinen, H., Hynynen, A., Kolehmainen, J., Moisio, S.

Publication date: 2019

### Publication information

Publisher: Työ- ja elinkeinoministeriö

URLs:

[https://tem.fi/documents/1410877/15836724/Hynynen\\_Aluekehitys+moniv%C3%A4rikuvassa\\_08102019.pdf/8644f6d2-5345-c5a0-2d1e-ecb7e4a49804/Hynynen\\_Aluekehitys+moniv%C3%A4rikuvassa\\_08102019.pdf](https://tem.fi/documents/1410877/15836724/Hynynen_Aluekehitys+moniv%C3%A4rikuvassa_08102019.pdf/8644f6d2-5345-c5a0-2d1e-ecb7e4a49804/Hynynen_Aluekehitys+moniv%C3%A4rikuvassa_08102019.pdf)

Research output: Working paper › Scientific

## Drivers of Global Urbanization: Exploring the emerging Urban Society

### General information

Publication status: Published

MoE publication type: A3 Part of a book or another research book

Organisations: Architecture, Research group: Urban Planning and Design

Contributors: Lehtovuori, P., Tartia, J., Cerrone, D.

Number of pages: 9

Publication date: 2019

### Host publication information

Title of host publication: The Routledge Handbook of Henri Lefebvre, The City and Urban Society

Place of publication: London

Publisher: Routledge

Editors: Leary-Owhin, M. E., McCarthy, J. P.

ISBN (Print): 9781138290051

ISBN (Electronic): 9781315266589

DOIs:

10.4324/9781315266589

Research output: Chapter in Book/Report/Conference proceeding › Chapter › Scientific › peer-review

## In memoriam: Terttu Nupponen 24.1.1947–7.2.2019

### General information

Publication status: Published

MoE publication type: D1 Article in a trade journal

Organisations: Architecture, Research group: Urban Planning and Design, University of Turku

Contributors: Eräsaari, L., Heimala-Pelkonen, M., Kurki, H., Norvasuo, M., Puustinen, S., Särkikoski, T.

Number of pages: 2

Pages: 33-34

Publication date: 2019

Peer-reviewed: Unknown

### Publication information

Journal: Yhdyskuntasuunnittelu

Volume: 57

Issue number: 3

ISSN (Print): 1459-6806

Original language: Finnish

DOIs:

10.33357/ys.86014

Research output: Contribution to journal › Article › Professional

## Kaupunki on ihmisen koti. Klassikko 1999: Taina Rajanti: Kaupunki on ihmisen koti

### General information

Publication status: Published

MoE publication type: B1 Article in a scientific magazine

Organisations: Architecture, Research group: Urban Planning and Design  
Contributors: Norvasuo, M.  
Number of pages: 4  
Pages: 60-63  
Publication date: 2019  
Peer-reviewed: No

#### **Publication information**

Journal: Yhdyskuntasuunnittelu  
Volume: 57  
Issue number: 2  
ISSN (Print): 1459-6806  
Original language: Finnish  
DOIs:  
10.33357/ys.83680  
URLs:  
<https://journal.fi/yhdyskuntasuunnittelu/article/view/83680>  
Research output: Contribution to journal > Article > Scientific

#### **Kuivaspään kyläsuunnitelma: Loppuraportti**

##### **General information**

Publication status: Published  
MoE publication type: D4 Published development or research report or study  
Organisations: Architecture, Research group: Urban Planning and Design, Tampere University  
Contributors: Lehtovuori, P., Vanhatalo, J., Elfving, S.  
Number of pages: 64  
Publication date: 2019

##### **Publication information**

Publisher: Tampereen teknillinen yliopisto  
Original language: Finnish  
Electronic versions:  
Kuivaspaan\_kylasuunnitelma\_2painos\_sahk\_  
URLs:  
<http://urn.fi/URN:NBN:fi:tuni-202001101165>  
Research output: Book/Report > Commissioned report > Professional

#### **Kulttuuriperintö ilmastokriisin kourissa – mutta myös osana ratkaisua?**

##### **General information**

Publication status: Published  
MoE publication type: D1 Article in a trade journal  
Organisations: Architecture  
Contributors: Salmela, U., Kalakoski, I.  
Publication date: 2019  
Peer-reviewed: Unknown

##### **Publication information**

Journal: Kulttuurista perinnöksi  
Volume: 3  
ISSN (Print): 2489-6233  
Original language: Finnish  
URLs:  
<https://www.kulttuuristaperinnoksi.fi/2019/kulttuuriperinto-ilmastokriisin-kourissa>  
Research output: Contribution to journal > Article > Professional

#### **Muusikko, tarinankertoja, Suomen ystävä: haastattelussa Daniel Libeskind**

##### **General information**

Publication status: Published  
MoE publication type: D1 Article in a trade journal  
Organisations: Architecture, Research group: Architecture: History and Theory

Contributors: Kalakoski, I.  
Publication date: 2019  
Peer-reviewed: Unknown

#### Publication information

Journal: Arkkitehtiutiset  
Volume: 9  
Issue number: 2019  
ISSN (Print): 0044-8915  
Original language: Finnish  
Research output: Contribution to journal › Article › Professional

#### Patinan viehäytys: Aleksi Siurola entisöi ja myy suomalaista designia

#### General information

Publication status: Published  
MoE publication type: E1 Popularised article, newspaper article  
Organisations: Architecture  
Contributors: Kalakoski, I.  
Publication date: 2019  
Peer-reviewed: Unknown

#### Publication information

Journal: DOT Design on Tampere  
Volume: 7  
Issue number: 2019  
Original language: Finnish  
URLs:  
[https://issuu.com/designontampere/docs/dot\\_lehti\\_2019\\_pages](https://issuu.com/designontampere/docs/dot_lehti_2019_pages)  
Research output: Contribution to journal › Article › General public

#### Re-imaginando el espacio público en los intersticios del vacío y el abandonon en las ciudades latinoamericanas

Esta ponencia analiza el proyecto de Huerto Tlatelolco dentro de los distintos discursos sobre el espacio público y como parte de un estudio que analiza 24 proyectos de apropiaciones temporales de espacios urbanos vacíos o abandonados en siete países latinoamericanos. El objetivo del trabajo es entender cómo estas apropiaciones están creando nuevos tipos de espacios públicos y oportunidades sociales para los ciudadanos y sus comunidades. Con base en un estudio cualitativo, se analiza cómo estos espacios urbanos son física y socialmente transformados en espacios vitales abiertos al público, ilustrando cómo activistas crean un espacio público incluyente y diferente.

#### General information

Publication status: Published  
MoE publication type: B3 Non-refereed article in conference proceedings  
Organisations: Architecture  
Contributors: Milián Bernal, D.  
Pages: 2435-2448  
Publication date: 2019

#### Host publication information

Title of host publication: Anais do II Congresso Ibero-americano de História Urbana, 2019  
Volume: 2

#### Publication series

Name: Anais II CIHU  
ISSN (Print): 2674-6808  
Electronic versions:  
Milián 2019-Re-imaginando el espacio público en el vacío  
URLs:  
<https://www.ifch.unicamp.br/ciec/aihu/congresso/anaiscihu/Anais%20II%20CIHU>  
<http://urn.fi/URN:NBN:fi:tuni-202006085957>

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific



## **Soveltava kulttuurintutkimus on kuin avoin syli**

### **General information**

Publication status: Published  
MoE publication type: A2 Review article in a scientific journal  
Organisations: Architecture  
Contributors: Kalakoski, I.  
Number of pages: 4  
Pages: 114-117  
Publication date: 2019  
Peer-reviewed: Yes

### **Publication information**

Journal: J@RGONIA  
Volume: 17  
Issue number: 33  
ISSN (Print): 1459-305X  
Original language: Finnish  
URLs:  
<http://urn.fi/URN:NBN:fi:jyu-201907033559>  
Research output: Contribution to journal › Review Article › Scientific › peer-review

## **Split Level: A story of ruptures and their appropriations**

### **General information**

Publication status: Published  
MoE publication type: D1 Article in a trade journal  
Organisations: Architecture, Research group: Urban Planning and Design  
Contributors: Milián Bernal, D., Lehtovuori, P.  
Number of pages: 8  
Pages: 68-75  
Publication date: 2019  
Peer-reviewed: Unknown

### **Publication information**

Journal: Estonian Architectural Review - MAJA  
Volume: Winter 2019  
Issue number: 95  
Original language: English  
Electronic versions:  
Split Level A story of ruptures 2020  
URLs:  
<https://ajakirimaja.ee/en/dalia-milian-bernal-panu-lehtovuori-split-level/>  
<http://urn.fi/URN:NBN:fi:tuni-202008136467>  
Research output: Contribution to journal › Article › Professional

## **Sustainability and our professional environment - design validation and collaboration to create relevant architecture**

### **General information**

Publication status: Published  
MoE publication type: D2 Article in professional manuals or guides or professional information systems or text book material  
Organisations: Architecture, University of Sheffield  
Contributors: Pelsmakers, S., Hoggard, A.  
Number of pages: 2  
Publication date: 2019

### **Host publication information**

Title of host publication: in Jones, A., Hyde, R., "Defining Contemporary Professionalism - for architects in practice and education"  
Publisher: RIBA Publishing  
ISBN (Print): 9781859468470  
Research output: Chapter in Book/Report/Conference proceeding › Chapter › Professional

## Teaching Archaeological Heritage Management: Towards a Change in Paradigms

The concept of archaeological heritage management (AHM) has been key to wider archaeological research and preservation agendas for some decades. Many universities and other education providers now offer what is best termed heritage management education (HME) in various forms. The emphasis is commonly on archaeological aspects of heritage in a broad sense and different terms are often interchangeable in practice. In an innovative working-conference held in Tampere, Finland, we initiated a debate on what the components of AHM as a course or curriculum should include. We brought together international specialists and discussed connected questions around policy, practice, research and teaching/training, at local, national, transnational and World Heritage levels. In this article we take the Tampere discussions further, focusing especially on the meaning, necessity, implications and prerequisites of interdisciplinary HME. We offer our thoughts on developing HME that reflects the contemporary aspects and needs of heritage and its management.

### General information

Publication status: Published

MoE publication type: A1 Journal article-refereed

Organisations: Architecture, Research group: Architecture: History and Theory, University of Helsinki, Friends of ICAHM, AW Heritage Consultancy, University of Helsinki, Complutense University of Madrid, University of Jyväskylä, University of Turku, Pirkanmaa Provincial Museum, Archaeologist and heritage consultant, Adam Mickiewicz University, Universidad Europea de Canarias, Anton de Kom University of Suriname, Newcastle University, Witwatersrand University

Contributors: Willems, A., Thomas, S., Castillo Mena, A., Čeginskas, V., Immonen, V., Kalakoski, I., Lähdesmäki, T., Lähdesmäki, U., Gowen-Larsen, M., Marciniak, A., Pérez González, E., White, C., Mazel, A. D.

Pages: 297-318

Publication date: 2019

Peer-reviewed: Yes

### Publication information

Journal: CONSERVATION AND MANAGEMENT OF ARCHAEOLOGICAL SITES

Volume: 20

Issue number: 5-6

ISSN (Print): 1350-5033

Ratings:

Scopus rating (2019): CiteScore 0.8 SJR 0.213 SNIP 0.391

Original language: English

DOIs:

10.1080/13505033.2018.1559423

Research output: Contribution to journal › Article › Scientific › peer-review

## Uutta ajattelua rakennusosien kierrättämiseen

### General information

Publication status: Published

MoE publication type: D1 Article in a trade journal

Organisations: Architecture, Research group: Architecture: History and Theory

Contributors: Kalakoski, I.

Publication date: 2019

Peer-reviewed: Unknown

### Publication information

Journal: Kulttuurista perinnöksi

Volume: 3

ISSN (Print): 2489-6233

Original language: Finnish

URLs:

<https://www.kulttuuristaperinnoksi.fi/2019/uutta-ajattelua-rakennusosien-kierrattamiseen>

Research output: Contribution to journal › Article › Professional

### **La función de la función / The Function of Function**

What are the reasons for the discredit of functionalism in architecture? What kind of mutations has the term 'function' undergone? What meaning has it acquired from modernity to present? What has the function of function been? Why do we nowadays say 'use' or 'activity' instead of 'function'? What happened with functionalist architecture? What is the aesthetics of function? And the ethics of function?

#### **General information**

Publication status: Published

MoE publication type: C2 Edited books

Organisations: Architecture, Universidad de Alcalá, Universidad Camilo José Cela

Contributors: García Triviño, F. (ed.), Nieto Fernandez, F. (ed.), Psegiannaki, K. (ed.), Quesada López, F. (ed.)

Number of pages: 123

Publication date: 31 Dec 2018

Peer-reviewed: Yes

#### **Publication information**

Journal: HipoTesis Numbered Issues

Volume: Hipo 6

ISSN (Print): 2340-5147

Original language: Spanish

ASJC Scopus subject areas: Architecture

URLs:

<http://hipo-tesis.eu/serienumerada/index.php/ojs/issue/view/hipo6>

Research output: Contribution to journal › Special issue › Scientific › peer-review

### **Kohtuuhintainen asuminen. Ratkaisuperiaatteita rakennussuunnitteluun.**

#### **General information**

Publication status: Published

MoE publication type: D5 Text book, professional manual or guide or a dictionary

Organisations: Architecture, Research group: ASUTUT

Contributors: Teronen, T., Tarpio, J., Hirvilammi, T.

Number of pages: 116

Publication date: 21 Dec 2018

#### **Publication information**

Place of publication: Tampere

Publisher: Tampereen teknillinen yliopisto. Arkkitehtuurin laboratorio

ISBN (Electronic): 978-952-15-4278-7

Original language: Finnish

#### **Publication series**

Name: Edit Tampereen teknillinen yliopisto. Arkkitehtuurin laboratorio. Asuntosuunnittelu. Julkaisu

No.: 31

ISSN (Print): 2242-4598

#### **Bibliographical note**

INT=ark,"Teronen, Tommi"

Research output: Book/Report › Book › Professional

### **Thinking Design: Towards an Architecture of Critical Indeterminacy and Temporal Affectivity**

The legacy of Platonic thought and education in the West has led to a narrowing of what we call "thinking." In particular, this legacy has led to modes of thinking that overvalue linear logic, objective facts, and universal constants, overlooking those human capacities whose results are difficult to measure because they cannot be quantified. However, architecture is a discipline that necessarily depends upon understanding those experiences that are temporal, affective, ephemeral, relational, embedded, lived, and felt. Architectural thinking overcomes scientific rationalism only through the realization that architectural significance can be found also in the indeterminacy of poetic understanding, which "communicates" via analogical language—the language of temporal affectivity.

This study aims to better understand creative thinking both generally and in the context of architecture, focusing on specific questions about the self-imposed limits that are typically placed upon what we call "thinking" and how to better stimulate the abilities of creative thought in architecture. In order to be congruent with the critique of a pervasive mathematical syntax, the methods and results of study strive to remain poetic in nature; in other words, this is a theoretical exercise whose insights are measured rhetorically through the correlation of various pieces of "circumstantial evidence" structured by an argument that succeeds or fails through its persuasive force alone. This evidence is built from anecdotes, examples and arguments, and structured through conversations with the thinking of philosophy and architecture; of

particular importance in this study are philosophers Martin Heidegger, Gilles Deleuze, and Gilbert Simondon, and the Finnish architect Reima Pietilä.

This is an argument for designing more supple, sensitive, and resilient modalities of thinking: thinking that is not solely aimed at creating better buildings, but also at carving out new areas of influence for architectural thinking in society. It is an argument that contends that simplistic absolutism in architectural movements and trends will only continue to promote fallacies about education, thinking, and the measures of architectural worth. It is an argument that believes architects must prioritize development of those critical, non-instrumental skills that sometimes the profession even forgets that it needs. It is an argument that believes that this process begins through an intensive familiarization and attunement to the affective-poetic syntax of temporal encounter, becomes possible when “creators” are nimble, inclusive, optimistic, and expansive, and can be subsumed in the maelstrom of problem and prospect—the design process—and leads to a temporal-material-spatial language of architecture that is most purely and powerfully architecture.

#### **General information**

Publication status: Published  
MoE publication type: G4 Doctoral dissertation (monograph)  
Organisations: Architecture  
Contributors: Teal, R.  
Number of pages: 263  
Publication date: 19 Dec 2018

#### **Publication information**

Publisher: Tampere University of Technology. School of Architecture  
ISBN (Print): 978-952-15-4263-3  
ISBN (Electronic): 978-952-15-4264-0  
Original language: English

#### **Publication series**

Name: Tampere University of Technology. School of Architecture. DATUTOP Occasional Papers  
Volume: 37  
ISSN (Print): 0359-7105  
Electronic versions:  
Datutop37  
URLs:  
<http://urn.fi/URN:ISBN:978-952-15-4264-0>  
Research output: Book/Report › Doctoral thesis › Monograph

### **Puukerrostalorakentaminen Suomessa: Tutkimus suomalaisten asuinpuukerrostalojen runkoratkaisuista ja asuntojen omistusmuodoista.**

#### **General information**

Publication status: Published  
MoE publication type: E1 Popularised article, newspaper article  
Organisations: Architecture  
Contributors: Karjalainen, M.  
Number of pages: 4  
Pages: 4-7  
Publication date: 12 Dec 2018  
Peer-reviewed: Unknown

#### **Publication information**

Journal: Suomen sahayrittäjät  
Volume: 2018  
Issue number: 4  
Article number: 1  
Original language: Finnish  
URLs:  
<https://www.yumpu.com/fi/document/read/62277156/suomen-sahayrittajat-4-2018>  
Research output: Contribution to journal › Article › General public

### **Energiatohokkaan arkkitehtisuunnittelun ohjekortisto**

#### **General information**

Publication status: Published

MoE publication type: D5 Text book, professional manual or guide or a dictionary  
Organisations: Architecture, Research group: ASUTUT  
Contributors: Moisio, M., Kaasalainen, T., Lehtinen, T., Hedman, M.  
Number of pages: 142  
Publication date: Dec 2018

#### Publication information

Publisher: Tampereen teknillinen yliopisto. Arkkitehtuurin laboratorio  
ISBN (Print): 978-952-15-4284-8  
ISBN (Electronic): 978-952-15-4285-5  
Original language: Finnish

#### Publication series

Name: Tampereen teknillinen yliopisto. Arkkitehtuurin laboratorio. Asuntosuunnittelu. Julkaisu  
Volume: 32  
ISSN (Print): 2242-4598  
ASJC Scopus subject areas: Architecture , Renewable Energy, Sustainability and the Environment  
Keywords: Energy efficiency, Architectural design, Service buildings, Building simulation  
Electronic versions:  
Moisio et al. 2018. Energiatehokkaan arkkitehtisuunnittelun ohjekortisto  
URLs:  
<http://urn.fi/URN:NBN:fi:ty-201901221135>  
Research output: Book/Report › Book › Professional

### Ikääntyneiden tehostettu palveluasuminen: Tilallisten ratkaisujen tehokkuudesta ja toimivuudesta

#### General information

Publication status: Published  
MoE publication type: D5 Text book, professional manual or guide or a dictionary  
Organisations: Architecture, Research group: ASUTUT  
Contributors: Kaasalainen, T., Lehtinen, T., Moisio, M., Hedman, M.  
Number of pages: 62  
Publication date: Dec 2018

#### Publication information

Place of publication: Tampere  
Publisher: Tampereen teknillinen yliopisto. Arkkitehtuurin laboratorio  
ISBN (Electronic): 978-952-15-4286-2  
Original language: Finnish

#### Publication series

Name: Tampereen teknillinen yliopisto. Arkkitehtuurin laboratorio. Asuntosuunnittelu. Julkaisu  
No.: 33  
ISSN (Print): 2242-4598  
ASJC Scopus subject areas: Architecture , Geriatrics and Gerontology  
Keywords: Elderly care, Assisted living, Housing design, Service buildings  
Electronic versions:  
Kaasalainen et al. 2018. Ikääntyneiden tehostettu palveluasuminen  
URLs:  
<http://urn.fi/URN:ISBN:978-952-15-4286-2>  
Research output: Book/Report › Book › Professional

### 'Los muertos que vos matáis gozan de buena salud': Crítica a la crítica Postmoderna del Funcionalismo

Modern functionalist culture is indebted to the dialectic function-form, rooted in Western thought, from its classical origins to our days. The article analyzes the reasons for the crisis of this tradition in architecture, beginning in the 1930s and especially departing from Postmodernism; when part of the academic establishment, alerts about the necessity of a new discourse that would allow the "advance" of architecture. 1965 Th. W. Adorno's reflections on functionalism are taken as the cornerstone, not only to review and criticize that historical moment, but also some aspects of our current situation. From Adorno's thought we can conclude that the functional discourse could "enjoy good health" if we act in accordance with what he understands as the "autonomy" in architecture.

#### General information

Publication status: Published  
MoE publication type: A1 Journal article-refereed

Organisations: Architecture  
Contributors: Rubio Hernandez, R.  
Pages: 7-28  
Publication date: Dec 2018  
Peer-reviewed: Yes

#### **Publication information**

Journal: HipoTesis Numbered Issues  
Issue number: 6  
Article number: 1  
ISSN (Print): 2340-5147  
Original language: Spanish  
ASJC Scopus subject areas: Arts and Humanities(all)  
Keywords: Functionalism, Postmodernism, P. Eisenman, Th. W. Adorno, Automomy  
URLs:  
<http://hipo-tesis.eu/serienumerada/index.php/ojs/article/view/hipo6rubio>  
Research output: Contribution to journal > Article > Scientific > peer-review

### **Peruskoulut ja energiatehokkuus: Tilallisista ja toiminnallisista suunnitteluperiaatteista**

#### **General information**

Publication status: Published  
MoE publication type: D5 Text book, professional manual or guide or a dictionary  
Organisations: Architecture, Research group: ASUTUT  
Contributors: Lehtinen, T., Papinsaari, A., Kaasalainen, T., Moisio, M., Hedman, M.  
Number of pages: 86  
Publication date: Dec 2018

#### **Publication information**

Publisher: Tampereen teknillinen yliopisto. Arkkitehtuurin laboratorio  
ISBN (Electronic): 978-952-15-4287-9  
Original language: Finnish

#### **Publication series**

Name: Tampereen teknillinen yliopisto. Arkkitehtuurin laboratorio. Asuntosuunnittelu. Julkaisu  
Volume: 34  
ISSN (Print): 2242-4598  
ASJC Scopus subject areas: Architecture , Renewable Energy, Sustainability and the Environment  
Keywords: Energy efficiency, Architectural design, School building, Service buildings  
Electronic versions:  
Lehtinen et al. 2018. Peruskoulut ja energiatehokkuus  
URLs:  
<http://urn.fi/URN:ISBN:978-952-15-4287-9>  
Research output: Book/Report > Book > Professional

### **Puukerrostaloalue Rauman Papinpellolle**

#### **General information**

Publication status: Published  
MoE publication type: D1 Article in a trade journal  
Organisations: Architecture  
Contributors: Karjalainen, M.  
Number of pages: 3  
Pages: 62-64  
Publication date: 2 Nov 2018  
Peer-reviewed: Unknown

#### **Publication information**

Journal: Puu-lehti  
Volume: 38  
Issue number: 3  
ISSN (Print): 0357-9484  
Original language: Finnish  
URLs:

### **The Work of the Studio Aalto Collaborators: Practice, Craft and Theory**

In 1954 Alvar Aalto built a new and larger studio building close to his existing combined home and studio in Munkkiniemi in Helsinki. The current study complements previous studies on the work produced at the so-called Studio Aalto over the next two decades by stressing its collective dimension and examining how in turn it was appropriated by the Studio collaborators.

This study is a combination of the history and theory of architecture and is structured thematically along three lines: practice, craft, and theory. The thesis as a whole is divided into 2 parts. Part I introduces and connects the work of the Studio with the work made independently by its members, a group of architects which has so far remained relatively unknown. A central question is thus whether these architects could continue the architectural profession at the level set out by the Studio. Part II concentrates on three case studies by members of the Studio: Jaakko Kontio (and Kalle Räike's) Lappeenranta University of Technology (1969-1975); Kaarlo Leppänen's Valkeakoski Cultural and Administrative Centre (1966-1973); Eric Adlercreutz (and Nils-Hinrik Aschan's) Jägarbacken Housing in Ekenäs (1968-1973).

The point of view of practice shows the relationship between the architecture and the circumstances, allowing for the problematization of the changes associated with the emergence of a welfare state in post-war Finland. Kontio's experience in university campus design is examined by considering the dialogues established with other people involved in the project. The point of view of craft emphasizes the action of successive generations upon the same material. Aalto's sense of tradition provoked a revision within the Modern Movement, but also contributed to the isolation of the Studio within Finnish architecture circles in the late 1960s. To contrapose the progressivist bias at that time, Leppänen's work is presented through a combination of technological and cultural approaches. In turn, theory is that part of architecture that can be discussed through ideas. The reconstitution of Adlercreutz's Pattern Language studies, based on those of Christopher Alexander, establishes a triangulation that clarifies the Studio's systematic and open method, thus helping to challenge the Studio's reputation for neglecting theory. The comparisons show that each of the collaborators combined something of their experience with Aalto with their own individual experiences, and used this combined experience, moreover, to face partly new problems. Taken bidirectionally, the comparisons encourage a reconsideration of Aalto's work and support my broader effort to confirm the continuity of architecture.

#### **General information**

Publication status: Published

MoE publication type: G4 Doctoral dissertation (monograph)

Organisations: Architecture

Contributors: Borges De Araujo, M.

Number of pages: 271

Publication date: 2 Nov 2018

#### **Publication information**

Publisher: Tampere University of Technology. School of Architecture

ISBN (Print): 978-952-15-4198-8

ISBN (Electronic): 978-952-15-4199-5

Original language: English

#### **Publication series**

Name: DATUTOP

Volume: 36

ISSN (Print): 0359-7105

Electronic versions:

Datutop 36

URLs:

<http://urn.fi/URN:ISBN:978-952-15-4199-5>

Research output: Book/Report › Doctoral thesis › Monograph

#### **Kaisa Soini**

Kotisivut [www.kaisasoini.fi](http://www.kaisasoini.fi). website showing my artistic work and career

#### **General information**

Publication status: Published

MoE publication type: F1 Published independent work of art

Organisations: Architecture

Contributors: Soini, K.

Publication date: 1 Nov 2018

Media of output: Online

Keywords: kaisa soini website

URLs:

<http://www.kaisasoini.fi>

Research output: Artistic and non-textual form › Web publication/site › Solo art production

## **Kohti käyttäjäkeskeistä asuntorakentamista: Asukaskeskeisen tilasuunnittelun osa-alueet**

### **General information**

Publication status: Published

MoE publication type: D1 Article in a trade journal

Organisations: Architecture

Contributors: Saarimaa, S.

Number of pages: 2

Publication date: 29 Sep 2018

Peer-reviewed: Unknown

### **Publication information**

Journal: RY Rakennettu ympäristö

Issue number: 3

ISSN (Print): 1457-9510

Original language: Finnish

URLs:

<http://proofer.faktor.fi/epaper/R318/#32>

Research output: Contribution to journal › Article › Professional

## **Adaptability of mass housing: Size modifications of flats as a response to segregation**

### **Purpose**

When dwellings fail to respond to residents' needs, housing will suffer from segregation and buildings will possibly be demolished ahead of their time. This paper focuses on the lack of variation in the sizes of dwellings as a factor in residential segregation. It examines this issue in the context of Finnish mass housing built in the 1960s and 1970s. The aim of the article is to review how mass housing layouts can be adapted to produce the currently absent flat sizes.

### **Design/methodology/approach**

The paper operates at the intersection of human geography, building stock research and adaptability research. First, statistical data is utilised to investigate how dwellings and households of different sizes are distributed over the Finnish housing stock. Secondly, the building layouts of mass housing are examined in detail. Thirdly, the potential that flats in mass housing have for size modification is reviewed.

### **Findings**

There is a disparity of available dwelling sizes between different housing types, and statistics show that the proportion of large households has decreased significantly in blocks of flats over the last decades. The lack of large dwellings in mass housing may contribute as one factor to the segregation of the neighbourhoods built in the 1960s and 1970s. The findings show how the variation of apartment sizes can be increased in mass housing.

### **Originality/value**

The housing stock is rarely examined in detail in segregation research, even though it is a major determinant for a city's social structure. This paper argues that to address segregation sustainably, it is necessary to understand the housing stock better and to view it as an adaptable asset.

### **General information**

Publication status: Published

MoE publication type: A1 Journal article-refereed

Organisations: Architecture, Research group: Built Environment in Transition, Research group: ASUTUT

Contributors: Huuhka, S., Saarimaa, S.

Number of pages: 19

Pages: 408-426

Publication date: 10 Sep 2018

Peer-reviewed: Yes

Early online date: 15 Aug 2018



### Publication information

Journal: International Journal of Building Pathology and Adaptation

Volume: 36

Issue number: 4

ISSN (Print): 2398-4708

Ratings:

Scopus rating (2018): CiteScore 1.9 SJR 0.45 SNIP 0.879

Original language: English

Keywords: adaptability, apartment sizes, flexibility, housing stock, mass housing, residential segregation

Electronic versions:

Huuhka&Saarimaa\_adaptability\_of\_mass\_housing\_author\_accepted\_manuscript

DOIs:

10.1108/IJBPA-01-2018-0011

URLs:

<http://urn.fi/URN:NBN:fi:tty-201809122278>

Research output: Contribution to journal › Article › Scientific › peer-review

### Condensation at the exterior surface of windows

New energy efficient windows have a higher risk for outdoor air vapour condensing to their exterior surface, when compared to older windows with lower thermal resistance. This external condensation can reduce visibility through the window, decrease owner satisfaction and affect the behaviour of window buyers and sellers. The purpose of this study was to analyse the impact of window U-value and other factors on the occurrence of external condensation. A combined heat and moisture transfer model was created and used for the calculations. According to the results, the duration and amount of external condensation are projected to increase in the future due to lower window U-values and climate change. Exterior surface emissivity, external shadings and building location had a big impact on the amount of yearly condensation hours, while window orientation and solar absorption coefficient had a smaller impact. There was also an interesting power-law-type correlation between yearly condensation hours and the median effective thickness of the condensation layer. The results help window manufacturers and building designers make more accurate decisions in their future work.

### General information

Publication status: Published

MoE publication type: A1 Journal article-refereed

Organisations: Civil Engineering

Contributors: Laukkarinen, A., Kero, P., Vinha, J.

Number of pages: 10

Pages: 592-601

Publication date: 1 Sep 2018

Peer-reviewed: Yes

### Publication information

Journal: Journal of Building Engineering

Volume: 19

ISSN (Print): 2352-7102

Ratings:

Scopus rating (2018): CiteScore 3.6 SJR 0.682 SNIP 1.569

Original language: English

ASJC Scopus subject areas: Building and Construction, Architecture, Civil and Structural Engineering, Safety, Risk, Reliability and Quality

Keywords: Building physics, Condensation, Energy efficiency, Heat transfer, Moisture transfer, Windows

Electronic versions:

Laukkarinen et al 2018 Condensation at the - Accepted manuscript. Embargo ended: 1/09/20

DOIs:

10.1016/j.jobbe.2018.06.014

URLs:

<http://urn.fi/URN:NBN:fi:tty-201807312043>. Embargo ended: 1/09/20

Source: Scopus

Source ID: 85049334016

Research output: Contribution to journal › Article › Scientific › peer-review

### Diversity scales for integrated housing in the multicultural city

"We have to deconstruct both 'the public interest' and 'community', recognizing that each tends to exclude difference. We must acknowledge that there are multiple publics and that planning in this new multicultural arena, requires a new kind of multicultural literacy" (Sandercock 1998, 30).

### General information

Publication status: Published  
MoE publication type: D3 Professional conference proceedings  
Organisations: Architecture  
Contributors: Maununaho, K.  
Number of pages: 4  
Pages: 104-107  
Publication date: 30 Aug 2018

### Host publication information

Title of host publication: Alvar Aalto Symposium : 14th International Alvar Aalto Symposium New housing solutions for cities in change  
Publisher: Alvar Aalto Foundation  
ISBN (Print): 978-952-5498-57-8  
URLs:  
[https://issuu.com/alvaraaltopublications/docs/alvar\\_aalto\\_symposium\\_2018](https://issuu.com/alvaraaltopublications/docs/alvar_aalto_symposium_2018)  
Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Professional

### User-centered urban housing: Reflections on the architect's role

#### General information

Publication status: Published  
MoE publication type: D3 Professional conference proceedings  
Organisations: Architecture, Research group: ASUTUT  
Contributors: Saarimaa, S.  
Publication date: 30 Aug 2018

#### Host publication information

Title of host publication: The 14th International Alvar Aalto Symposium Publication  
Publisher: Alvar Aalto Foundation  
ISBN (Print): 978-952-5498-57-8  
Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Professional

### User-Centered Urban Housing: Reflections on Architect's Role

#### General information

Publication status: Published  
MoE publication type: D2 Article in professional manuals or guides or professional information systems or text book material  
Organisations: Architecture  
Contributors: Saarimaa, S.  
Publication date: 30 Aug 2018

#### Host publication information

Title of host publication: 14th International Alvar Aalto Symposium publication : New housing solutions for cities in change  
Volume: 2018  
Place of publication: Jyväskylä  
Publisher: Alvar Aalto Foundation  
ISBN (Print): 978-952-5498-57-8  
Research output: Chapter in Book/Report/Conference proceeding › Chapter › Professional

### A cookbook for agile housing

#### General information

Publication status: Published  
MoE publication type: D3 Professional conference proceedings  
Organisations: Architecture, Research group: ASUTUT  
Contributors: Tarpio, J.  
Number of pages: 4  
Pages: 88-91  
Publication date: Aug 2018

#### Host publication information

Title of host publication: Alvar Aalto Symposium. : 14th international Alvar Aalto Symposium. 30–31 August 2018  
Jyväskylä Finland.

Publisher: Alvar Aalto Foundation  
ISBN (Print): 978-952-5498-57-8  
Keywords: housing, housing design  
Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Professional

## **KARKIT – Kohtuuhintaisen asumisen rakennuskonseptit**

### **General information**

Publication status: Published  
MoE publication type: D1 Article in a trade journal  
Organisations: Architecture, Research group: ASUTUT  
Contributors: Tarpio, J.  
Number of pages: 3  
Pages: 15-17  
Publication date: Aug 2018  
Peer-reviewed: Unknown

### **Publication information**

Journal: Araviesti  
Volume: 2018  
Issue number: 2  
ISSN (Print): 1457-8093  
Original language: Finnish  
URLs:  
[http://www.ara.fi/fi-FI/Tietopankki/ARAviesti/ARAviestin\\_verkkoartikkelit/KARKIT\\_Kohtuuhintaisen\\_asumisen\\_rakennu\(47729\)](http://www.ara.fi/fi-FI/Tietopankki/ARAviesti/ARAviestin_verkkoartikkelit/KARKIT_Kohtuuhintaisen_asumisen_rakennu(47729))  
Research output: Contribution to journal › Article › Professional

## **Re-City. (Im)possible cities**

### **General information**

Publication status: Published  
MoE publication type: C2 Edited books  
Organisations: Architecture, Research group: Urban Planning and Design  
Contributors: Rajaniemi, J. (ed.), Chudoba, M. (ed.)  
Publication date: Aug 2018

### **Publication information**

Publisher: Tampere University of Technology, School of Architecture  
ISBN (Print): 978-952-15-4143-8  
ISBN (Electronic): 978-952-15-4144-5  
Original language: English

### **Publication series**

Name: DATUTOP  
Publisher: Tampere University of Technology, School of Architecture  
ISSN (Print): 0359-7105  
Electronic versions:  
DATUTOP\_2017\_impossible\_cities  
URLs:  
<http://urn.fi/URN:ISBN:978-952-15-4144-5>

### **Bibliographical note**

jufoid=54540  
Research output: Book/Report › Anthology › Scientific › peer-review

## **Editorial Introduction**

### **General information**

Publication status: Published  
MoE publication type: A1 Journal article-refereed  
Organisations: Architecture  
Contributors: Passinmäki, P.

Number of pages: 3  
Pages: 6-8  
Publication date: 3 Jul 2018  
Peer-reviewed: Yes

#### Publication information

Journal: Architectural Research in Finland  
Volume: 2  
Issue number: 1  
ISSN (Print): 2489-6799  
Original language: English  
URLs:

<https://journal.fi/architecturalresearchfinland/issue/view/Architectural%20Research%20in%20Finland%20vol.2%2C%20no.1%202018>

Research output: Contribution to journal › Editorial › Scientific › peer-review

#### Tectonic use of reclaimed timber: Design principles for turning scrap into architecture

Increasing the use of timber has been proposed as one step towards more sustainable architecture and construction. Timber's renewability and the capability to store carbon have dominated this discussion. At the same time, viewpoints related to material efficiency and recycling, equally important aspects to sustainability, have been neglected. Unfortunately, recycling wood can be challenging, and countries that already build a lot with timber tend to rely on incineration at the end of the life cycle. Reusing wood could, however, save emissions from manufacturing new timber and disposing of demolished timber and prolong the time the carbon stays sequestered. Embedded in new architectural ensembles, salvaged components could also transmit the past to the contemporary viewer and thus, result in more evocative architecture.

Barriers preventing reuse in general have been documented in literature, but few solutions have been proposed. The obstacles include, among other things, inconsistent quality and quantity, difficulty of dimensional coordination and negative perception, which are all issues connected to design. This paper employs literature review and design simulation in addressing the challenges of architectural design from reclaimed timber. With the help of literature, the tectonic nature of reclaimed wood material is elaborated in more detail. The design simulation was conducted during a special timber architecture course with the help of 36 students, whose design projects form the empirical research material of the paper. Engaging in a discussion with literature and the research material, the study results in recognizing how reclaimed timber essentially differs from virgin timber and proposes ten design principles for managing the inconsistencies associated with the salvaged material.

The presented discussion demonstrates that reclaimed materials should be considered as materials of their own; they should not be expected to simply comply with conventional construction methods and design practices. Since the salvaged components already exist, their architectural and structural design cannot be differentiated from each other. Therefore, tectonic expression endogenous to reclaimed materials needs to be developed in order to actuate their more widespread reuse. Whereas historical and vernacular construction methods withhold many insights for architectural design from reclaimed timber, contemporary computer-aided design offers novel tools for the execution of these ideas. The remarks of the paper are not only valid in Western contexts, but may be highly relevant for architects working in developing countries.

#### General information

Publication status: Published  
MoE publication type: A1 Journal article-refereed  
Organisations: Architecture, Research group: Built Environment in Transition  
Contributors: Huuhka, S.  
Number of pages: 22  
Pages: 130-151  
Publication date: 3 Jul 2018  
Peer-reviewed: Yes

#### Publication information

Journal: Architectural Research in Finland  
Volume: 2  
Issue number: 1  
ISSN (Print): 2489-6799  
Original language: English  
Keywords: architectural design, cascading, circular economy, recycling, reuse, salvaged wood  
URLs:

<https://journal.fi/architecturalresearchfinland/article/view/73183/35051>

Research output: Contribution to journal › Article › Scientific › peer-review

## Asuntomessujen talotärpit

### General information

Publication status: Published  
MoE publication type: E1 Popularised article, newspaper article  
Organisations: Architecture, Research group: ASUTUT  
Contributors: Tarpio, J.  
Number of pages: 6  
Pages: 44-49  
Publication date: Jul 2018  
Peer-reviewed: Unknown

### Publication information

Journal: Meidän talo  
Volume: 2018  
Issue number: 7  
ISSN (Print): 1455-2825  
Original language: Finnish  
Research output: Contribution to journal › Article › General public

### Observer, expert, or activist: changing roles in design research project

This article discusses ethical issues in an urban development design research study. It is based on an ongoing PhD research project which investigates questions of urban housing design in socially diverse, multicultural neighbourhoods. Experience from the case discloses ethical responsibilities in design research that concerns researchers' positions, empirical results, and perceivable effects on the case environment. This article aims to argue for politically informed action that acknowledges ethical responsibilities to the case environment and people living in it as a primary interest in design research.

### General information

Publication status: Published  
MoE publication type: A1 Journal article-refereed  
Organisations: Architecture, Research group: ASUTUT  
Contributors: Maununaho, K.  
Number of pages: 20  
Pages: 269-288  
Publication date: 28 Jun 2018  
Peer-reviewed: Yes

### Publication information

Journal: The NAAR Proceedings Series  
Volume: 2018  
Issue number: 1  
ISSN (Print): 2535-4523  
Original language: English  
Electronic versions:  
109-19-PB  
URLs:  
<http://urn.fi/URN:NBN:fi:tty-201901181112>  
<http://arkitekturforskning.net/files/journals/1/issues/109/109-19-PB.pdf>

### Bibliographical note

jufoid=86486  
Research output: Contribution to journal › Conference article › Scientific › peer-review

## Vaasa's wooden tower of innovation -arkkitehtipiskelijakilpailu

### General information

Publication status: Published  
MoE publication type: D1 Article in a trade journal  
Organisations: Architecture, Research group: Built Environment in Transition  
Contributors: Karjalainen, M.  
Number of pages: 8

Pages: 60-67  
Publication date: 15 Jun 2018  
Peer-reviewed: Unknown

#### Publication information

Journal: Puu-lehti  
Volume: 38  
Issue number: 2  
ISSN (Print): 0357-9484  
Original language: Finnish  
URLs:

<https://www.puuinfo.fi/articles/puu-lehti-22018>  
Research output: Contribution to journal › Article › Professional

### Jyväskylän ratapihan ympäristö, Yhdyskuntasuunnittelun ammattikurssi 1 2018

#### General information

Publication status: Published  
MoE publication type: D4 Published development or research report or study  
Organisations: Architecture, Research group: Urban Planning and Design  
Contributors: Rajaniemi, J. (ed.), Chudoba, M. (ed.), Lehmusvaara, E. (ed.)  
Number of pages: 153  
Publication date: Jun 2018

#### Publication information

Place of publication: Tampere  
Publisher: Tampere University of Technology, School of Architecture  
ISBN (Print): 978-952-15-4126-1  
ISBN (Electronic): 978-952-15-4127-8  
Original language: Finnish  
Electronic versions:

[julkaisu\\_07062018\\_verkkoversio\\_pieni](#)  
URLs:  
<http://urn.fi/URN:ISBN:978-952-15-4127-8>  
Research output: Book/Report › Commissioned report › Professional

### Makkarapötköä vai moninaista mosaiikkia? Kotimaiset urbaanit asunto- ja asumiskonseptit vuonna 2017.

#### General information

Publication status: Published  
MoE publication type: A2 Review article in a scientific journal  
Organisations: Architecture, Research group: ASUTUT  
Contributors: Tarpio, J., Leino, H., Laine, M.  
Publication date: Jun 2018  
Peer-reviewed: Yes

#### Publication information

Journal: Yhdyskuntasuunnittelu  
Volume: 56  
Issue number: 2  
ISSN (Print): 1459-6806  
Original language: Finnish  
Keywords: asuminen, asuntotuotanto, asuntosuunnittelu, megatrendit, konsepti  
URLs:

<http://www.yss.fi/journal/makkarapotkoa-vai-moninaista-mosaiikkia/>  
Research output: Contribution to journal › Review Article › Scientific › peer-review

### Spolia revisited and extended: The potential for contemporary architecture

In the fields of archaeology, art history and history, spolia have traditionally been studied as phenomena of the past. Today, the reuse of salvaged construction components and materials is primarily justified by its economic and ecological benefits, while its architectural and experiential qualities are much less discussed, if at all. Therefore, this article has two focuses, one more conceptual, and the other, more practical. Firstly, the article suggests extending the concept of spolia to contemporary architecture and discusses the usefulness of the concept in evaluating experiential values in contemporary constructions that make use of reclaimed parts. Secondly, it evaluates the potential of spolia as a

modern design tool in search of a more complex and historicity-based architectural expression. This potential is examined by defining the requirements for the extended concept, and through analyzing examples of contemporary design. Although the main focus of this article is on contemporary architecture based on old building components, the topic also has obvious implications for heritage management.

#### **General information**

Publication status: Published

MoE publication type: A1 Journal article-refereed

Organisations: Architecture, Research group: Architecture: History and Theory, Research group: Built Environment in Transition

Contributors: Kalakoski, I., Huuhka, S.

Number of pages: 27

Pages: 187-213

Publication date: Jun 2018

Peer-reviewed: Yes

Early online date: 30 Nov 2017

#### **Publication information**

Journal: Journal of Material Culture

Volume: 23

Issue number: 2

ISSN (Print): 1359-1835

Ratings:

Scopus rating (2018): CiteScore 1.8 SJR 0.525 SNIP 1.088

Original language: English

Electronic versions:

kalakoski&huuhka\_spolia\_author\_accepted\_manuscript

DOIs:

10.1177/1359183517742946

URLs:

<http://urn.fi/URN:NBN:fi:ty-201802141245>

Research output: Contribution to journal > Article > Scientific > peer-review

### **Puurakentamisvaihtoehtojen huomioiminen tarvitsee tuekseen lain**

#### **General information**

Publication status: Published

MoE publication type: E1 Popularised article, newspaper article

Organisations: Architecture

Contributors: Karjalainen, M.

Number of pages: 1

Publication date: 31 May 2018

Peer-reviewed: Unknown

#### **Publication information**

Journal: Lapin Kansa

Original language: Finnish

Research output: Contribution to journal > Article > General public

### **Puurakentamisen huomioimiseksi tarvitaan laki**

#### **General information**

Publication status: Published

MoE publication type: E1 Popularised article, newspaper article

Organisations: Architecture

Contributors: Karjalainen, M.

Number of pages: 1

Publication date: 25 May 2018

Peer-reviewed: Unknown

#### **Publication information**

Journal: Maaseudun Tulevaisuus

Original language: Finnish

Research output: Contribution to journal > Article > General public

## Puurakentamisvaihtoehtojen huomioiminen tarvitsee tuekseen lain

### General information

Publication status: Published  
MoE publication type: E1 Popularised article, newspaper article  
Organisations: Architecture  
Contributors: Karjalainen, M.  
Number of pages: 1  
Publication date: 19 May 2018  
Peer-reviewed: Unknown

### Publication information

Journal: Kaleva  
Volume: 19.5.2018  
Original language: Finnish  
Research output: Contribution to journal › Article › General public

## Quality Parameters for Renovation

### General information

Publication status: Published  
MoE publication type: D4 Published development or research report or study  
Organisations: Architecture, Research group: Urban Laboratory  
Contributors: Saatsi, P., Sørensen, B. R., Gustafsson, A.  
Number of pages: 52  
Publication date: 11 Apr 2018

### Publication information

Publisher: Tampere University of Technology. Laboratory of Architecture  
ISBN (Electronic): 978-952-15-4121-6  
Original language: English  
Electronic versions:

Quality parameters for renovation

URLs:

<http://urn.fi/URN:ISBN:978-952-15-4121-6>

Research output: Book/Report › Commissioned report › Professional

## Puurakentamisen kansalaisaloite on hyvällä asialla

### General information

Publication status: Published  
MoE publication type: E1 Popularised article, newspaper article  
Organisations: Architecture  
Contributors: Karjalainen, M.  
Publication date: 26 Mar 2018  
Peer-reviewed: Unknown

### Publication information

Journal: [www.biotalous.fi](http://www.biotalous.fi)  
Original language: Finnish  
URLs:  
<http://www.biotalous.fi/puurakentamisen-kansalaisaloite-on-hyvalla-asialla/>  
Research output: Contribution to journal › Comment/debate › General public

## Rich & Orderly: The Role of Visual Complexity and Order in Intuitive Preference for Apartment Interiors

Both everyday experience and scientific knowledge have demonstrated the great power of the environment to influence not only our emotions and behaviour but also our well-being and health. There is also reason to believe that intuitive preference exerts a significant influence on choice of apartment. Environmental preferences have been studied widely in both natural and urban contexts as well as in the context of external building styles. However, considering the amount of time that people spend inside buildings, including homes, systematic research on visual preferences for architectural interiors seems to be surprisingly negligible. Therefore, studying architectural characteristics that increase visual preference for apartment interiors has to be considered relevant from the perspective of both the well-being and health of people, and also that of enhancing the quality of apartment stock.



The primary aim of this thesis was to study architectural characteristics that increase the experience of the visual appeal, or pleasantness, of apartment interiors. I have striven to achieve this aim, first by exploring the literature for attributes that may influence visual preference. Based on these findings, I defined several variables that I considered possibly predictive of visual preference for apartment interiors. Finally, the influence of these variables on visual preference for apartment interiors was studied experimentally.

As previous research is scarce on architectural characteristics and their influence on preference in the context of apartment interiors, I ended up searching for characteristics through a broad, interdisciplinary theoretical framework. Two concepts - visual complexity and order - were found to emerge repeatedly from this theoretical framework. In the field of aesthetics, a great number of both theoretical and experimental studies lend support to the assumption that visual aesthetic preference would in one way or another be related to visual complexity and order. Similar results have been obtained in the field of environmental psychology, mainly in the context of outdoor environments; visual elements that promote both exploration and comprehensibility of the environment have been found to increase environmental preference. Besides, several architectural characteristics that can be seen to relate to visual complexity and order are typical of traditional architectural styles, and classical architectural theories emphasize their role in the context of building aesthetics. However, it seems that these concepts have received only minor attention in present-day architectural discourse, research and theory.

Based on the literature, a broad set of architectural variables that were considered to potentially explain visual complexity, order and preference of apartment scenes, was created for use in the experimental part of this thesis. Additionally, a total of forty-three test images - where the architectural variables in question obtained different values - were created for this purpose. In the experiment, 107 medical students, who acted as test subjects, evaluated the images according to their interestingness the term used in this thesis to describe the level of interest they aroused - (an operationalized measure for complexity), spatial organization (an operationalized measure for order) and pleasantness (an operationalized measure for appeal or preference). The relationships between these evaluations and the architectural variables were then analysed by using regression analysis, by comparing the similarities and differences in the evaluations of four subgroups (males, females, participants with prior artistic training and participants without prior art training) and by visually analysing the images and their ratings. In addition, the different affective qualities that might be related to different architectural characteristics were assessed by using the Circumplex model for affective quality attributed to environments created by Russell, Ward and Pratt (1981).

The most important and the most reliable result of this thesis can be considered to be that the ratings for interestingness and spatial organization of apartment interiors were found to predict the ratings for pleasantness. The same finding was perceived within the whole group as well as within each of the four subgroups. This study thus lends support to the finding that has emerged in research from other disciplines: the environment should be both complex and ordered at the same time in order to be pleasant. In addition, certain physical architectural characteristics were found that predicted the majority of variance of the ratings for interestingness (83%) and spatial organization (87.6%). For instance, the total number of outward directions from the room, the amount of detail (the number of black pixels in the binary image) and the surface area of the windows were found to increase the ratings for interestingness in the regression model of the whole group and in that of at least three subgroups. In the same way, the bilateral symmetry of the room was found to increase and the number of aligned element lines to decrease the ratings for spatial organization. Together with the ratings for interestingness and spatial organization, the use of classical proportions and verticality were found to predict the majority (76.6%) of variance in the ratings for pleasantness. However, creating and defining the architectural variables used in this study was challenging, within certain characteristics in particular, and therefore the results concerning these can only be regarded as preliminary. Studying the phenomena perceived in this study further with both different subject groups and architectural variables provides interesting and important research topics for future studies.

### **General information**

Publication status: Published

MoE publication type: G4 Doctoral dissertation (monograph)

Organisations: Architecture

Contributors: Pihlajarinne, N.

Number of pages: 413

Publication date: 16 Mar 2018

### **Publication information**

Publisher: Tampere University of Technology

ISBN (Print): 978-952-15-4098-1

ISBN (Electronic): 978-952-15-4099-8

Original language: English

Keywords: Architecture, Architectural Design, Housing Design, Housing preference, Apartment preference, Aesthetic Preference, Intuitive preference

Electronic versions:

NP dissertation

URLs:

<http://urn.fi/URN:ISBN:978-952-15-4099-8>  
Research output: Book/Report › Doctoral thesis › Monograph

### **Vanha rakennuskanta: kestävä kaupunkistumisen riesa vai voimavara?**

#### **General information**

Publication status: Published  
MoE publication type: D1 Article in a trade journal  
Organisations: Architecture, Research group: Built Environment in Transition  
Contributors: Huuhka, S.  
Number of pages: 1  
Pages: 12  
Publication date: 2 Feb 2018  
Peer-reviewed: Unknown

#### **Publication information**

Journal: Rakentaminen & Infrastrukturi  
Volume: 2018  
Issue number: 1  
Original language: Finnish  
Research output: Contribution to journal › Article › Professional

### **Digital Design in Urban Environments 2017: Explorations in Computational Design Strategies**

#### **General information**

Publication status: Published  
Organisations: Architecture  
Contributors: Bonora, M., Degryse, I., Denni, C., Fassotte, R., Ferdous, R., Grangien, C., Kopecka, K., Milanesi, S., Pflüger, M., Qian, W., Riminiceanu, D., Vaillant, J., Vlkova, K., Voigtländer, L.  
Number of pages: 63  
Publication date: 29 Jan 2018

#### **Publication information**

Publisher: Tampere University of Technology  
Year: 2018  
ISBN (Print): 978-952-15-4088-2  
ISBN (Electronic): 978-952-15-4089-9  
Original language: English  
Electronic versions:  
Digital Design Booklet\_DIGITAL VERSION\_  
URLs:  
<http://urn.fi/URN:ISBN:978-952-15-4089-9>  
Research output: Other contribution › Scientific

### **Ideoita kaavoituksen sisällön uudistamiseen: Kaavojen merkintöjen ja määräysten kehittäminen (KAMMI-hanke)**

The project concerning the designations used in the plans and regulations on the plans (KAMMI) was based on the need to develop the content of the plans at different levels to take the changes in the environment and future needs better into account. As an outcome recommendations are given to develop the spatial planning system in relation to the key steering needs that were identified and the European objectives relating to the harmonisation of the management of planning data (INSPIRE Directive).

The various subsections of the report provide the reasoning for the conclusions at the end. The report starts with a description of the history and current situation of the Finnish spatial planning system. A key part of the project were the so-called stimulus themes through which the main needs for change were to be identified and the core future tasks of spatial planning were to be specified. The reflections on the stimulus themes were mirrored against the development of the spatial planning system as a whole and its contents. In the project it was also considered necessary to construct a view and ideas to renew spatial planning from the perspective of designations and regulations. At the end, various types of designations were developed for the steering of land use by municipalities both on the more general and on quite detailed level.

The work is closely linked to the process of amending the Land Use and Building Act that has been started. It provides a particular perspective to the discussion on the reform of the regional and land use planning system.

#### **General information**

Publication status: Published

MoE publication type: D4 Published development or research report or study

Organisations: Architecture

Contributors: Jama, T., Lehtovuori, P., Rajaniemi, J., Siikonen, M., Mäntynen, J., Rantanen, A., Joutsiniemi, A., Koskela, K., Kärkinen, T., Saarikoski, P., Saarniaho, K.

Number of pages: 74

Publication date: 26 Jan 2018

#### Publication information

Place of publication: Helsinki

Publisher: Ympäristöministeriö

Volume: 4/2018

ISBN (Print): 978-952-11-4779-1

ISBN (Electronic): 978-952-11-4780-7

Original language: Finnish

Keywords: kaavoitus, alueidenkäyttö, alueidenkäytön suunnittelu, kaavamerkinnot, kaavamääräykset

URLs:

<http://urn.fi/URN:ISBN:978-952-11-4780-7>

Research output: Book/Report > Commissioned report > Professional

### 'Don't Fix It if It Ain't Broke': Encounters with Planning for Complex Self-Organizing Cities

#### General information

Publication status: Published

MoE publication type: G5 Doctoral dissertation (article)

Organisations: Architecture

Contributors: Partanen, J.

Number of pages: 214

Publication date: 12 Jan 2018

#### Publication information

Publisher: Tampere University of Technology

ISBN (Print): 978-952-15-4050-9

ISBN (Electronic): 978-952-15-4073-8

Original language: English

#### Publication series

Name: Tampere University of Technology. Publication

Volume: 1514

ISSN (Print): 1459-2045

Electronic versions:

partanen 1514

URLs:

<http://urn.fi/URN:ISBN:978-952-15-4073-8>

Research output: Book/Report > Doctoral thesis > Collection of Articles

### Bridging soft and hard – Towards a more coherent understanding of self-organisation within urban complexity research

Cities are becoming increasingly complex in both form and function, while the planning system retains the rational top-down mode – assuming that urbanity is predictable. However, complexity thinking affords a promising perspective on cities as uncertain and dissipative, bottom-up organizing systems.

Emerging from social sciences, the methodology of communicative approaches in urban planning is mainly qualitative, while the origin of complexity thinking is in natural sciences, relying on quantitative methods. In both discourses the concept of self-organisation in particular occurs constantly. Regarding their backgrounds, the approaches in urban planning research typically differ from each other rendering the use of the concept unclear and thereby limiting its overall applicability.

In this paper we seek to explore concepts of self-organisation and urban complexity in two different kinds of urban analyses, and to build a shared understanding which supports urban planning and development endeavours in practice.

#### General information

Publication status: Published

MoE publication type: A1 Journal article-refereed

Organisations: Architecture

Contributors: Partanen, J., Wallin, S.

Publication date: Jan 2018

Peer-reviewed: Yes

### Publication information

Journal: Yhdyskuntasuunnittelu

Volume: 01

Issue number: 2018

ISSN (Print): 1459-6806

Original language: English

URLs:

<http://www.yss.fi/journal/bridging-soft-and-hard/>

Research output: Contribution to journal › Article › Scientific › peer-review

### Editorial: City Imaginings and Urban Everyday Life

#### General information

Publication status: Published

MoE publication type: B1 Article in a scientific magazine

Organisations: Architecture, Research group: Urban Planning and Design, University of Oulu, University of Tampere

Contributors: Ylipulli, J., Ridell, S., Partanen, J.

Publication date: Jan 2018

Peer-reviewed: No

#### Publication information

Journal: WiderScreen

Volume: 1

Issue number: 2018

Article number: 01/2018

ISSN (Print): 1795-6161

Original language: English

URLs:

<http://widerscreen.fi/numerot/2018-1-2/editorial-city-imaginings-urban-everyday-life/>

Research output: Contribution to journal › Review Article › Scientific

### Epätoivon kaupungit ja perirealistinen dystopia

During the last decades, dystopic visions have become very popular, especially in the literature and movies targeted to teenagers. The genre offers many interesting works of art also for more mature taste. Two important novels from the year 2009, Margaret Atwood's *The Year of the Flood* and Ahmed Khaled Towfik's *Utopia*, are describing the failure of the city in the near future. In both books two types of urban settlement exist in the same area, one for the rich and the other for the poor. They are dependent on each other, even if a protective wall – both concrete, societal and economic – is built to separate their inhabitants. I examine them especially from the point of view of inequality. I also suggest that the books represent a formerly undefined subgenre of speculative fiction, perirealist dystopia. It is a fact-based narrative situated in the near future and intended to improve the current societal development by presenting exaggerated dystopic visions. I call this desire as the principle of no-hope.

#### General information

Publication status: Published

MoE publication type: A1 Journal article-refereed

Organisations: Architecture, Research group: Urban Planning and Design

Contributors: Rajaniemi, J.

Number of pages: 9

Pages: 19-27

Publication date: Jan 2018

Peer-reviewed: Yes

#### Publication information

Journal: Futura

Volume: 36

Issue number: 4

ISSN (Print): 0785-5494

Original language: Finnish

ASJC Scopus subject areas: Urban Studies, Linguistics and Language

Keywords: utopia, dystopia, kaupunki, valta, tulevaisuus, toivo, epätoivo, urbaani, fiktio

URLs:

<http://www.tutuseura.fi/julkaisut/futura/4-2017>.

Research output: Contribution to journal › Article › Scientific › peer-review

## **Kaupunkievoluution tunnistaminen ja tukeminen itseohjeutuvilla työpaikka-alueilla**

### **General information**

Publication status: Published

MoE publication type: D4 Published development or research report or study

Organisations: Architecture

Contributors: Partanen, J.

Publication date: Jan 2018

### **Publication information**

Original language: Finnish

### **Publication series**

Name: Tutkimuskatsauksia

Publisher: Turun kaupunkitutkimusohjelma

Volume: 01/2018

ISSN (Electronic): 1799-5124

URLs:

[https://www.turku.fi/sites/default/files/atoms/files//tutkimuskatsauksia\\_1-2018.pdf](https://www.turku.fi/sites/default/files/atoms/files//tutkimuskatsauksia_1-2018.pdf)

Research output: Book/Report › Commissioned report › Professional

## **Puurakenteiden uudelleenkäyttömahdollisuudet**

### **General information**

Publication status: Published

MoE publication type: D4 Published development or research report or study

Organisations: Civil Engineering, Research group: Service Life Engineering of Structures, Architecture, Research group: Built Environment in Transition

Contributors: Huuhka, S., Köliö, A., Annala, P., Poti, A.

Number of pages: 63

Publication date: Jan 2018

### **Publication information**

Place of publication: Tampere

Publisher: Tampere University of Technology

ISBN (Electronic): 978-952-15-4075-2

Original language: Finnish

### **Publication series**

Name: Muuttuva rakennettu ympäristö

Publisher: Tampere University of Technology. Architecture.

No.: 4

ISSN (Electronic): 2489-4281

Name: Rakennetekniikka. Tutkimusraportti.

Publisher: Tampere University of Technology. Civil Engineering.

No.: 165

Electronic versions:

Puurakenteiden\_uudelleenkäyttömahdollisuudet

URLs:

<http://urn.fi/URN:ISBN:978-952-15-4075-2>

Research output: Book/Report › Commissioned report › Professional

## **An architect's perspective**

### **General information**

Publication status: Published

MoE publication type: D2 Article in professional manuals or guides or professional information systems or text book material

Organisations: Architecture, Research group: Urban Planning and Design

Contributors: Poutanen, J.

Number of pages: 15  
Pages: 48-62  
Publication date: 2018

#### Host publication information

Title of host publication: Exploring informal learning space in the university : A collaborative approach  
Place of publication: London, New York  
Publisher: Routledge  
Editors: Walton, G., Matthews, G.  
Article number: 4  
ISBN (Print): 978-1-4724-8261-7  
ISBN (Electronic): 978-1-315-58165-1  
ASJC Scopus subject areas: Education  
Keywords: Built environment, Planning, Architecture, Professional Practice  
URLs:  
<https://www.routledge.com/Exploring-Informal-Learning-Space-in-the-University-A-Collaborative-Approach/Walton-Matthews/p/book/9781472482617>  
Research output: Chapter in Book/Report/Conference proceeding › Chapter › Professional

#### Bricolage in Collaborative Housing in Finland: Combining Resources for Alternative Housing Solutions

Finnish collaborative housing projects are in an experimental stage. These projects are trying to push the conventional practices of housing production into a new shape in order to realize their schemes in the housing market dominated by large construction companies. This paper aims to shed light on the resident groups' resources in a context where resident-driven projects are rare. We apply the concept of bricolage to analyse three collaborative housing projects in Finland. Our analysis highlights that the residents refused to enact limitations imposed by the dominant housing market and examines how this was made possible. The cases we studied were successful for two interconnected reasons: (1) because of the capabilities of the residents; and (2) the professional allies they had. We argue that analyses framed by bricolage can help better understand the local contexts with their real and presumed constraints, and offer a possibility for international comparison of collaborative housing.

#### General information

Publication status: Published  
MoE publication type: A1 Journal article-refereed  
Organisations: Architecture, POLEIS - Research Program on the Politics of Space and the Environment  
Contributors: Laine, M., Helamaa, A., Kuoppa, J., Alatalo, E.  
Publication date: 2018  
Peer-reviewed: Yes  
Early online date: 2018

#### Publication information

Journal: Housing, Theory and Society  
ISSN (Print): 1403-6096  
Ratings:  
Scopus rating (2018): CiteScore 3.1 SJR 1.24 SNIP 1.305  
Original language: English  
ASJC Scopus subject areas: Development, Sociology and Political Science, Urban Studies  
Keywords: bricolage, Collaborative housing, multi-unit housing production, residents  
DOIs:  
10.1080/14036096.2018.1492438

#### Bibliographical note

EXT="Alatalo, Elina"  
Source: Scopus  
Source ID: 85050374479  
Research output: Contribution to journal › Article › Scientific › peer-review

#### Critique, Creativity and the Co-Optation of the Urban: A Case of Blind Fields and Vague Spaces in Lefebvre, Copenhagen and Current Perceptions of the Urban

Even though more than four decades have passed since the writing of *The Production of Space*, with walls, governance regimes and financial markets coming tumbling down, cities around the globe still find themselves in—and reproduce what Lefebvre would characterize as—abstract space, a space produced by economy and bureaucracy, and reproducing dominant regimes thereof beyond the grasp of users and inhabitants of cities. In this article, it is argued that an urban perception is cancelled out in the reductive struggle between two dominant perceptions of urban change. The article unfolds in three moments: firstly, an outline of Henri Lefebvre's critique of 'the urban' and 'the production of space' is presented in order to clarify his critique of reductive perceptions and the significance of the urban in his work; secondly, a

conceptualizing narrative anchoring Lefebvre's concepts to recent developments in Copenhagen, not least developments related to the sub-cultures, is explored — showing how different agents pursue the realization of different perceptions of urban change; thirdly, it is concluded that this development needs to be conceptualized as a reduction of the urban into a residual as well as the unfolding of a dominant contradiction between 'critique' and 'creativity'.

#### General information

Publication status: Published  
MoE publication type: A1 Journal article-refereed  
Organisations: Architecture  
Contributors: Larsen, J. L., Brandt, J.  
Publication date: 2018  
Peer-reviewed: Yes

#### Publication information

Journal: Urban Planning  
Volume: 3  
Issue number: 3  
ISSN (Print): 2183-7635  
Ratings:  
Scopus rating (2018): CiteScore 2.1 SJR 0.547 SNIP 1.134  
Original language: English  
Electronic versions:  
UP 3(3) - Critique, Creativity and the Co-Optation of the Urban\_ A Case of Blind Fields and Vague Spaces in Lefebvre, Copenhagen and Current Perceptions of the Urban  
DOIs:  
10.17645/up.v3i3.1394  
URLs:  
<http://urn.fi/URN:NBN:fi:ty-201806131976>  
Research output: Contribution to journal > Article > Scientific > peer-review

#### Ei ainoastaan leivästä: Ruoka, kokemus ja moniaistisuus

#### General information

Publication status: Published  
MoE publication type: D5 Text book, professional manual or guide or a dictionary  
Organisations: Architecture, Taideyliopiston Sibelius Akatemia, Seinäjoen Ammattikorkeakoulu, Turun yliopisto, Functional Foods Forum, University of Oslo, Faculty of Medicine, 22.10.2010, University of Turku, Turun Yliopisto/Turun Biomateriaalikeskus  
Contributors: Hynynen, A., Hopia, A., Uimonen, H., Pitkälampi, T., Aaltojärvi, I., Paakki, M., Kontukoski, M.  
Number of pages: 92  
Publication date: 2018

#### Publication information

Publisher: Tampereen teknillinen yliopisto. Arkkitehtuurin laboratorio  
ISBN (Print): 978-952-15-4110-0  
ISBN (Electronic): 978-952-15-4111-7  
Original language: Finnish  
Electronic versions:  
Ei\_ainoastaan\_leivästä  
URLs:  
<http://urn.fi/URN:ISBN:978-952-15-4111-7>  
Research output: Book/Report > Book > Professional

#### Examining the rhythms of 'urban elements' on walking and driving routes in the city

The article follows Kevin Lynch's renowned formulation of 'urban elements' to examine the mobilities, experiences and materialities on ordinary routes in the city. Utilizing route narratives and participant-produced visual data, the article focuses on various identifiable micro-temporalities and mobility rhythms on repeated walking and driving routes, building on Henri Lefebvre's notion of 'rhythmanalysis'. The article examines how a framework built around rhythm and urban elements can add to the analysis of contemporary urban sites from the perspectives of situated mobile contexts, noting sequences and polyrhythmia as central temporal characteristics in the body–environment relations.

#### General information

Publication status: Published

MoE publication type: A1 Journal article-refereed  
Organisations: Architecture  
Contributors: Tartia, J.  
Publication date: 2018  
Peer-reviewed: Yes  
Early online date: 2018

#### Publication information

Journal: Mobilities

Volume: 13

Issue number: 6

ISSN (Print): 1745-0101

Ratings:

Scopus rating (2018): CiteScore 5.1 SJR 1.581 SNIP 1.541

Original language: English

ASJC Scopus subject areas: Demography, Geography, Planning and Development, Sociology and Political Science

Keywords: everyday life, mobile methods, mobilities, Rhythm, rhythmanalysis, urban elements

DOIs:

10.1080/17450101.2018.1477303

Source: Scopus

Source ID: 85051998023

Research output: Contribution to journal › Article › Scientific › peer-review

#### Ihmisen näkökulma integroidun asumisen jaetuissa tiloissa

The research focuses on spatio-functional aspects in recent European integrated housing cases, utilizing Jan Gehl's ideas of the human dimension in urban space as a central instrument.

#### General information

Publication status: Published

MoE publication type: A1 Journal article-refereed

Organisations: Architecture, Research group: ASUTUT

Contributors: Maununaho, K.

Publication date: 2018

Peer-reviewed: Yes

#### Publication information

Journal: Yhdyskuntasuunnittelu

Volume: 56

ISSN (Print): 1459-6806

Original language: Finnish

Keywords: Integrated housing, intercultural housing, intergenerational housing, Jan Gehl, spatio-functional analysis

URLs:

<http://www.yss.fi/journal/ihmisen-nakokulma-integroidun-asumisen-jaetuissa-tiloissa/>

Research output: Contribution to journal › Article › Scientific › peer-review

#### Kaupunkikuvan muutos herätti arkkitehdit elokuvan tekoon

#### General information

Publication status: Published

MoE publication type: D1 Article in a trade journal

Organisations: Architecture, Research group: Architecture: History and Theory

Contributors: Kalakoski, I.

Publication date: 2018

Peer-reviewed: Unknown

#### Publication information

Journal: Kulttuurista perinnöksi

Volume: 2

ISSN (Print): 2489-6233

Original language: Finnish

URLs:

<https://www.kulttuuristaperinnoksi.fi/2018/kaupunkikuvan-muutos>

Research output: Contribution to journal › Article › Professional



## Kestävyys ja korjaaminen

### General information

Publication status: Published

MoE publication type: D1 Article in a trade journal

Organisations: Architecture, Research group: Architecture: History and Theory

Contributors: Kalakoski, I., Lehtinen, P.

Publication date: 2018

Peer-reviewed: Unknown

### Publication information

Journal: Kulttuurista perinnöksi

Volume: 2

ISSN (Print): 2489-6233

Original language: Finnish

URLs:

<https://www.kulttuuristaperinnoksi.fi/2018/kestavyys-ja-korjaaminen>

Research output: Contribution to journal › Article › Professional

### Low energy housing retrofit in North England: Overheating risks and possible mitigation strategies

In the drive to reduce space-heating demand and associated CO<sub>2</sub> emissions as well as tackle fuel poverty, dwelling overheating and summer-time occupant thermal discomfort might be the unintended consequences of low-energy building retrofits. This paper presents the findings of a steady-state modelled low-energy retrofit dwelling in northern England and its potential current and future climate overheating risks using UK Climate Projections 2009 (UKCP09) scenarios (2050 and 2080 High Emission Scenarios). Predictive findings highlight that retrofitting to low-energy standards increases overheating risk over time, unless passive prevention measures are included in the retrofit design. In addition, the steady-state nature of the model might not fully capture the occupants' exposure to actual future overheating risks. Among the most effective individual passive overheating mitigation strategies are temporary internal shading, permanent external shading and night-time ventilation. Most effective is a combination of these adaptation measures, so that predictive overheating is minimised in a future changing climate, reducing the uptake of active cooling in retrofitted dwellings.

Practical application: Much research focuses on building overheating risks in the warmer South-east of England. However, this paper highlights how dwelling retrofit in north England (Sheffield) also can lead to increased dwelling overheating risk, unless passive design measures are included in the retrofit design. Among the most effective individual passive overheating mitigation strategies are solar shading devices and increased night-time ventilation, though ideally different measures are combined. Using future climate scenarios highlights that retrofits designed today might not be able to provide occupant thermal comfort in a future warming world.

### General information

Publication status: Published

MoE publication type: A1 Journal article-refereed

Organisations: Architecture

Contributors: Ibrahim, A., Pelsmakers, S.

Pages: 161-172

Publication date: 2018

Peer-reviewed: Yes

### Publication information

Journal: Building Services Engineering Research and Technology

Volume: 39

Issue number: 2

ISSN (Print): 0143-6244

Ratings:

Scopus rating (2018): CiteScore 2.2 SJR 0.501 SNIP 0.689

Original language: English

DOIs:

10.1177/0143624418754386

Research output: Contribution to journal › Article › Scientific › peer-review

## Mille-Oeille: Environmental Zoo

### General information

Publication status: Published  
MoE publication type: A3 Part of a book or another research book  
Organisations: Architecture, Rensselaer Polytechnic Institute, USA  
Contributors: Rubio Hernandez, R., Pérez-Guembe, E.  
Pages: 410-413  
Publication date: 2018

#### Host publication information

Title of host publication: Time, Space, Existence  
Publisher: GAA Foundation  
ISBN (Print): 978-90-826559-3-3  
ASJC Scopus subject areas: Architecture , Human-Computer Interaction  
Keywords: Virtual Reality, Augmented Reality, Architecture  
Research output: Chapter in Book/Report/Conference proceeding › Chapter › Scientific › peer-review

#### MOOC-Graphies: Possibilities for Online Graphic Learning

In 2013, two research groups---the Architectural Photogrammetry Lab and the Spanish Observatory of Heritage Education---were authorized to create a digital course addressing the most recent challenges in architectural heritage: identification, documentation, representation and communication, which means drawing in a global sense. The massive open online course NEP: New Educational Strategies to Safeguard Cultural Heritage, approved as innovative teaching project by the University of Valladolid, was offered during the 2013--2016 period to achieve this goal. In addition to reviewing the different approaches on MOOC-graphy to date (focused on the area of architectural graphic expression), the purpose of this paper is to analyze the course's strengths and weaknesses.

#### General information

Publication status: Published  
MoE publication type: A4 Article in a conference publication  
Organisations: Architecture, Research group: EDGE  
Contributors: García Fernández, J., Fernández Martín, J. J., San José Alonso, J.  
Number of pages: 11  
Pages: 253-263  
Publication date: 2018

#### Host publication information

Title of host publication: Architectural Draughtsmanship  
Place of publication: Cham  
Publisher: Springer International Publishing AG  
Editors: Castaño Perea, E., Echeverría Valiente, E.  
ISBN (Print): 978-3-319-58856-8  
ISBN (Electronic): 978-3-319-58856-8  
DOIs:  
10.1007/978-3-319-58856-8\_20  
Source: Bibtex  
Source ID: urn:b37b6e2caf7b09bae493d8aca75e81fe  
Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

#### Paraisten kalkkikaivoksen alueen kehittäminen: Arkkitehtipiskelijöiden visioita

#### General information

Publication status: Published  
Organisations: Architecture  
Contributors: Kalakoski, I. (ed.)  
Publication date: 2018

#### Publication information

Publisher: Tampereen teknillinen yliopisto  
Year: 2018  
ISBN (Print): 978-952-15-4109-4  
Original language: Finnish  
Electronic versions:  
PARAINEN 2017  
URLs:  
<http://urn.fi/URN:ISBN:978-952-15-4109-4>  
Research output: Other contribution › Scientific

## **Reframing Cities with Peripheral Settlements under the Decentralization Discourse: The Case of Amman, Jordan**

The rapid spatial growth of the urban peripheries of Amman, the capital of Jordan, calls for an immediate reconsideration of the enforced planning policies that govern it. This paper therefore casts light on the implementation of the decentralization discourse in one problematic area in the Middle East, Amman City, focusing on the administrative decentralization of decision-making, and the resulting transfer of urban competencies and urban services.

This research intends to investigate the decentralized administration and its application in urban planning policy by tracing the history of one of Amman's satellite towns, Sahab. The study will assess the effectiveness and success of the policy implementation, and the relationship between the Amman City core and its marginal urban node, spatially and functionally. The study has used the international literature, data published from a number of Jordanian public departments, and structured interviews conducted with planners from Greater Amman Municipality (GAM), the Sahab municipality, and random sampling of the local community.

The results of this research indicate that the deep-rooted centralized authority of Greater Amman Municipality (GAM) clearly runs contrary to the hoped for decentralization approach. Accordingly, the current urban policies have failed, on the administrative and planning level, to create an autonomous or even semi-autonomous urban node. Instead, an unbalanced relationship can be observed between the Amman City core and Sahab, the satellite town. Finally, the paper closes by calling for appropriate institutionalization of the development plans and realistic implementation of spatial policies

### **General information**

Publication status: Published

MoE publication type: A4 Article in a conference publication

Organisations: Architecture, Research group: Urban Planning and Design

Contributors: Amr, A.

Number of pages: 16

Pages: 50-65

Publication date: 2018

### **Host publication information**

Title of host publication: Re-City. (Im)possible cities : DATUTOP

Volume: 35

Place of publication: Tampere, Finland

Publisher: Tampere University of Technology, School of Architecture

Editors: Rajaniemi, J., Chudoba, M.

Article number: 1

ISBN (Print): 978-952-15-4143-8

ISBN (Electronic): 978-952-15-4144-5

### **Publication series**

Name: Datutop

ISSN (Electronic): 0359-7105

Keywords: urban policies, decentralization approach, satellite town

URLs:

[https://tutcris.tut.fi/portal/files/16711466/DATUTOP\\_2017\\_impossible\\_cities.pdf](https://tutcris.tut.fi/portal/files/16711466/DATUTOP_2017_impossible_cities.pdf)

<http://urn.fi/URN:ISBN:978-952-15-4144-5>

### **Bibliographical note**

jufoid=54540

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

**Special Issue: Architectural Research in Finland vol.2, no.1, 2018 - Architecture and Experience Now**

### **General information**

Publication status: Published

MoE publication type: C2 Edited books

Organisations: Architecture  
Contributors: Passinmäki, P.  
Publication date: 2018  
Peer-reviewed: Yes

#### Publication information

Journal: Architectural Research in Finland  
Volume: 2  
Issue number: 1  
ISSN (Print): 2489-6799  
Original language: English  
URLs:

<https://journal.fi/architecturalresearchfinland/issue/view/Architectural%20Research%20in%20Finland%20vol.2%2C%20no.1%202018>

Research output: Contribution to journal › Special issue › Scientific › peer-review

#### Tehdään älykästä

##### General information

Publication status: Published  
MoE publication type: D1 Article in a trade journal  
Organisations: Architecture, Research group: Urban Laboratory  
Contributors: Hynynen, A.  
Number of pages: 2  
Pages: 12-13  
Publication date: 2018  
Peer-reviewed: Unknown

##### Publication information

Journal: Arkkitehtiutiset  
Issue number: 1/2018  
ISSN (Print): 0044-8915  
Original language: Finnish  
URLs:

[http://www.e-julkaisu.fi/SAFA/au\\_arkkitehtiutiset/1-2018/](http://www.e-julkaisu.fi/SAFA/au_arkkitehtiutiset/1-2018/)

Research output: Contribution to journal › Comment/debate › Professional

#### Underpinning Interrelated Factors of Physical, Virtual, and Social Learning Environments

##### General information

Publication status: Published  
MoE publication type: A4 Article in a conference publication  
Organisations: Electronics and Communications Engineering, Research group: Urban Planning and Design, Architecture  
Contributors: Kangas, J., Poutanen, J.  
Pages: 8087-8096  
Publication date: 2018

##### Host publication information

Title of host publication: ICERI2018 Proceedings  
ISBN (Electronic): 978-84-09-05948-5

##### Publication series

Name: ICERI proceedings  
ISSN (Electronic): 2340-1095  
Electronic versions:  
iceri18\_kangas\_poutanen\_id459  
DOIs:

10.21125/iceri.2018.0459

URLs:

<http://urn.fi/URN:NBN:fi:tuni-201910013623>

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

## Vaasa's wooden tower of innovation

### General information

Publication status: Published  
MoE publication type: D5 Text book, professional manual or guide or a dictionary  
Organisations: Architecture  
Contributors: Karjalainen, M., Pesonen, M.  
Number of pages: 65  
Publication date: 2018

### Publication information

Place of publication: Tampere  
Publisher: Tampereen teknillinen yliopisto. Arkkitehtuurin laitos. Rakennusoppi  
Volume: 10  
ISBN (Print): 978-952-15-4158-2  
Original language: Finnish  
Research output: Book/Report › Book › Professional

## Метаморфология: новый взгляд на роль пространства в городском планировании

### General information

Publication status: Accepted/In press  
MoE publication type: B2 Part of a book or another research book  
Organisations: Architecture  
Contributors: Lehtovuori, P., Cerrone, D., Partanen, J.  
Publication date: 2018

### Host publication information

Title of host publication: Настройка языка : управление коммуникациями на постсоветском пространстве  
Place of publication: Moscow  
Publisher: Новое литературное обозрение  
Editor: Lapina Kratasyuk, E.  
ISBN (Print): 978-5-4448-0543-5  
Keywords: urban planning, Planning, planning and designing  
Research output: Chapter in Book/Report/Conference proceeding › Chapter › Scientific

## Lähiöasunto: mainettaan muuntautumiskykyisempi

### General information

Publication status: Published  
MoE publication type: D1 Article in a trade journal  
Organisations: Research group: Built Environment in Transition, Architecture  
Contributors: Huuhka, S.  
Number of pages: 4  
Pages: 16-19  
Publication date: Dec 2017  
Peer-reviewed: Unknown

### Publication information

Journal: RY Rakennettu ympäristö  
Volume: 54  
Issue number: 4  
ISSN (Print): 1457-9510  
Original language: Finnish  
URLs:  
<http://proofer.faktor.fi/epaper/R417/>  
Research output: Contribution to journal › Article › Professional

## Spatial solutions supporting information exchange and knowledge creation

Architectural practice is a creative, knowledge-based organization, and therefore information exchange and knowledge creation are essential components of architects' profession. However, these aspects of architectural practice are not studied widely. The objective of this study is to analyse how the mobility of the different types of workers' effects on the information exchange and knowledge creation in a team-based office layout. The research material was collected from a semi-large Finnish architecture office. The methods employed are qualitative: theme interviews with the employees and the executives of the office, together with the informal on-site observations. The preliminary analysis of the research

material indicates that the team-based office layout supported tacit knowledge exchange and creative group work. The team rooms, however, did not support the individual working preferences of the participants. Furthermore, the tacit knowledge remained inside the team and did not spread through the whole organization. Therefore, as a downside, the team-based working inhibited the information exchange and knowledge creation between different teams.

#### **General information**

Publication status: Published

MoE publication type: A1 Journal article-refereed

Organisations: Architecture, Research group: Urban Planning and Design, Pervasive Computing, Research area: User experience, Industrial and Information Management, Research group: Novi

Contributors: Peltoniemi, S., Poutanen, J., Ahtinen, A., Salonius, H.

Number of pages: 14

Pages: 106-119

Publication date: Dec 2017

Peer-reviewed: Yes

#### **Publication information**

Journal: Architectural Research in Finland

Volume: 1

Issue number: 1

ISSN (Print): 2489-6799

Original language: English

URLs:

<https://journal.fi/architecturalresearchfinland/article/view/68800/30272>

Research output: Contribution to journal › Article › Scientific › peer-review

#### **Ad astra - maataideteos**

Ad astra is a public piece of art, and of a form of land art. It is 200 m<sup>2</sup> large and made of stone and lights. It is located in Mäyränmäki Vuores, in the accommodation unit of Hupakankorvenkatu 6. The art piece is accepted as part of art program in Vuores, city of Tampere.

#### **General information**

Publication status: Published

MoE publication type: F1 Published independent work of art

Organisations: Architecture, Research group: Architecture: History and Theory

Contributors: Soini, K.

Publication date: 25 Nov 2017

Research output: Artistic and non-textual form › Artefact › Solo art production

#### **Katsaus 2016: Kastellin monitoimitalo**

#### **General information**

Publication status: Published

MoE publication type: F1 Published independent work of art

Organisations: Architecture, Research group: Architecture: History and Theory

Contributors: Lahdelma, I.

Publication date: 25 Nov 2017

Research output: Artistic and non-textual form › Exhibition › Solo art production › peer-review

#### **Resurssitehokkuuden käsite ja toimintatapojen kansainvälinen benchmarking: Whole-hankkeen osaraportti 1**

#### **General information**

Publication status: Published

MoE publication type: D4 Published development or research report or study

Organisations: Architecture

Contributors: Lehtovuori, P., Vanhatalo, J., Rantanen, A., Varna, G.

Number of pages: 78

Publication date: 17 Nov 2017

#### **Publication information**

Publisher: Tampereen teknillinen yliopisto. Arkkitehtuurin laboratorio

ISBN (Electronic): 978-952-15-4020-2

Original language: Finnish

### Publication series

Name: Tampereen teknillinen yliopisto, Arkkitehtuurin laboratorio, julkaisu

Volume: 12

ISSN (Print): 2489-6322

Electronic versions:

WHOLE-osaraportti\_1

URLs:

<http://urn.fi/URN:ISBN:978-952-15-4020-2>

Research output: Book/Report › Commissioned report › Professional

### Puukerrostalot yleistyvät hitaasti mutta varmasti

#### General information

Publication status: Published

MoE publication type: D1 Article in a trade journal

Organisations: Architecture

Contributors: Karjalainen, M.

Number of pages: 1

Pages: 2

Publication date: 10 Nov 2017

Peer-reviewed: Unknown

#### Publication information

Journal: Rakennuslehti

Issue number: 45

Article number: Rakennuslehti 45/2017

ISSN (Print): 0033-9121

Original language: Finnish

URLs:

<https://www.rakennuslehti.fi/blogit/puukerrostalot-yleistyvat-hitaasti-mutta-varmasti/>

Research output: Contribution to journal › Article › Professional

### Echoes-100 Years in Finnish Design and Architecture: Polin, Vellamo

#### General information

Publication status: Published

MoE publication type: F1 Published independent work of art

Organisations: Architecture, Research group: Architecture: History and Theory

Contributors: Lahdelma, I.

Publication date: 9 Nov 2017

Research output: Artistic and non-textual form › Exhibition › Solo art production › peer-review

### Socio-Ecological Intervention to Promote Active Commuting to Work: Protocol and Baseline Findings of a Cluster Randomized Controlled Trial in Finland

Active commuting to work (ACW) is beneficial to traffic, environment and population health. More evidence is needed on effective ways to promote ACW. This paper describes the protocol and baseline findings of a cluster-randomized controlled study, which aims to promote ACW with multilevel strategies in two large workplace areas in Tampere, Finland. In Phase 1, the impacts of environmental strategies (trail improvements) were evaluated in 11 workplaces within Area 1. In Phase 2, five more workplaces were recruited from Area 2 to evaluate the impacts of social and behavioral strategies customized for each workplace. For this purpose, the workplaces in both areas were randomly assigned into experimental group (EXP, n = 6 + 2), which promoted ACW with social and behavioral strategies or into comparison group (COM, n = 5 + 3), which participated in the data collection only. The primary indicator in both phases is the change in employees' ACW. Secondary indicators are e.g., changes in employees' self-rated health, wellbeing at work, restrictions to and motivation for ACW, adverse effects due to ACW and the use and quality of the main walking and cycling trails. Also process, efficiency and environmental evaluation is included. The study is the first one in Finland to combine interdisciplinary collaboration between practitioners and researchers working in the fields of transportation, urban design, physical activity and sustainable development to promote ACW. The findings benefit all stakeholders interested in promoting ACW in urban context.

#### General information

Publication status: Published

MoE publication type: A1 Journal article-refereed

Organisations: Architecture, Research group: Urban Laboratory

Contributors: Aittasalo, M., Tiilikainen, J., Tokola, K., Seimelä, T., Sarjala, S., Metsäpuro, P., Hynynen, A., Suni, J., Sievänen, H., Vähä-Ypyä, H., Vaismaa, K., Vakkala, O., Foster, C., Titze, S., Vasankari, T.  
Number of pages: 19  
Publication date: 20 Oct 2017  
Peer-reviewed: Yes

#### **Publication information**

Journal: International Journal of Environmental Research and Public Health  
Volume: 14  
Issue number: 10  
ISSN (Print): 1661-7827  
Ratings:  
Scopus rating (2017): CiteScore 3.2 SJR 0.735 SNIP 1.027  
Original language: English  
Electronic versions:  
ijerph-14-01257-v2  
DOIs:  
10.3390/ijerph14101257  
URLs:  
<http://urn.fi/URN:NBN:fi:tty-201711082123>  
Research output: Contribution to journal › Article › Scientific › peer-review

#### **Echoes-100- Years in Finnish Design and Architecture: Polin, Vellamo**

##### **General information**

Publication status: Published  
MoE publication type: F1 Published independent work of art  
Organisations: Architecture, Research group: Architecture: History and Theory  
Contributors: Lahdelma, I.  
Publication date: 19 Oct 2017  
Research output: Artistic and non-textual form › Exhibition › Solo art production › peer-review

#### **Wien – edullisen mutta laadukkaan asumisen Wunderland: Blogikirjoitus**

##### **General information**

Publication status: Published  
MoE publication type: E1 Popularised article, newspaper article  
Organisations: Architecture  
Contributors: Tarpio, J.  
Publication date: 9 Oct 2017  
Peer-reviewed: Unknown

##### **Publication information**

Journal: Dwellers in Agile Cities -sivusto  
Original language: Finnish  
URLs:  
<http://www.agilecities.fi/2017/10/09/wien-edullisen-mutta-laadukkaan-asumisen-wunderland/>  
URLs:  
<http://www.agilecities.fi/>  
Research output: Contribution to journal › Article › General public

#### **Puukerrostalojen asukas- ja rakennuttajakyselyn 2017 tulokset**

##### **General information**

Publication status: Published  
MoE publication type: D1 Article in a trade journal  
Organisations: Architecture, Research group: Built Environment in Transition  
Contributors: Karjalainen, M.  
Number of pages: 6  
Pages: 48-53  
Publication date: Oct 2017  
Peer-reviewed: Unknown



### Publication information

Journal: Puu-lehti

Volume: 37

Issue number: 3

ISSN (Print): 0357-9484

Original language: Finnish

URLs:

<http://proofer.faktor.fi/epaper/Puu317/>

Research output: Contribution to journal › Article › Professional

### Kaupunkirakenteen kokonaisvaltainen resurssitehokkuus

The built environment and urban functions, including transportation, use notable amounts of material and energy resources. On the other hand, cities are an important source of technical and social skills, social well-being and economic innovation. The WHOLE project approaches the urban structure as a set of interactive spatial and functional networks, linkages of which direct resource generation and flows. The resource-efficiency of the urban structure is defined not only as saving and recycling re- sources, but also as their constant renewal. The main result of the project is the comprehensive re- source-efficiency model for urban structures, the WHOLE model. It conceptualises different decision types to improve resource-efficiency, presents an extensive plan of action for resource-efficiency that can be applied at different stages of design, management and projects, and suggests qualitative and quantitative indicators and calculation methods related to the plan. The project has also produced a model that combines material, immaterial and spatial resources, a qualitative evaluation model for transportation projects, and a GIS-based, modular calculation model for spatial resource efficiency. Integration between networks is suggested as a way of enhancing resource-efficiency. Instead of mere densification, the results of the project emphasise versatile network links, accessibility in broad sense and flexibility of structures in changing contexts.

### General information

Publication status: Published

MoE publication type: D4 Published development or research report or study

Organisations: Architecture, Research group: Urban Planning and Design, Research group: EDGE, Civil Engineering,

Research group: Transport Research Centre Verne

Contributors: Lehtovuori, P., Vanhatalo, J., Rantanen, A., Viri, R., Sorri, J., Edelman, H., Liimatainen, H.

Number of pages: 134

Publication date: 27 Sep 2017

### Publication information

Publisher: Valtioneuvoston kanslia

Volume: 2017

Edition: 65

ISBN (Print): 978-952-287-451-1

ISBN (Electronic): 978-952-287-450-4

Original language: Finnish

### Publication series

Name: Valtioneuvoston selvitys- ja tutkimustoiminnan julkaisusarja

ISSN (Electronic): 2342-6799

Electronic versions:

WHOLE-loppuraportti\_65-2017

URLs:

<http://urn.fi/URN:NBN:fi:tty-201712012287>

URLs:

[http://tietokayttoon.fi/documents/10616/3866814/65\\_WHOLE-loppuraportti-20092017+%28%29.pdf/210de171-d6bf-4405-a2d4-cfa262fbd522?version=1.0](http://tietokayttoon.fi/documents/10616/3866814/65_WHOLE-loppuraportti-20092017+%28%29.pdf/210de171-d6bf-4405-a2d4-cfa262fbd522?version=1.0)

Research output: Book/Report › Commissioned report › Professional

### Resurssitehokkuuden kaupunkirakenteellisia ulottuvuuksia

### General information

Publication status: Published

MoE publication type: D2 Article in professional manuals or guides or professional information systems or text book material

Organisations: Architecture

Contributors: Rantanen, A.

Number of pages: 14

Pages: 18-31

Publication date: 27 Sep 2017

#### Host publication information

Title of host publication: Kaupunkirakenteen kokonaisvaltainen resurssitehokkuus

Volume: 2017

Publisher: Valtioneuvoston kanslia

Editors: Lehtovuori, P., Vanhatalo, J., Rantanen, A., Viri, R.

Edition: 65

ISBN (Print): 978-952-287-451-1

ISBN (Electronic): 978-952-287-450-4

#### Publication series

Name: Valtioneuvoston selvitys- ja tutkimustoiminnan julkaisusarja

ISSN (Electronic): 2342-6799

URLs:

[http://tietokaytoon.fi/documents/10616/3866814/65\\_WHOLE-loppuraportti-20092017+%28282%29.pdf/210de171-d6bf-4405-a2d4-cfa262fbd522?version=1.0](http://tietokaytoon.fi/documents/10616/3866814/65_WHOLE-loppuraportti-20092017+%28282%29.pdf/210de171-d6bf-4405-a2d4-cfa262fbd522?version=1.0)

Research output: Chapter in Book/Report/Conference proceeding › Chapter › Professional

### Korsgrundet i Jakobstad, Yrkeskurs 1 i Stadsplanering 2017

#### General information

Publication status: Published

MoE publication type: D4 Published development or research report or study

Organisations: Architecture, Research group: Urban Planning and Design

Contributors: Rajaniemi, J. (ed.), Chudoba, M. (ed.), Laine, O. (ed.)

Number of pages: 117

Publication date: Sep 2017

#### Publication information

Place of publication: Tampere

Publisher: Tampere University of Technology, School of Architecture

ISBN (Print): 978-952-15-3971-8

ISBN (Electronic): 978-952-15-3972-5

Original language: Swedish

Electronic versions:

[ristikari\\_ruotsi\\_nettiin](#)

URLs:

<http://urn.fi/URN:ISBN:978-952-15-3972-5>

Research output: Book/Report › Commissioned report › Professional

### Myyttejä purkamassa: Totta ja tarua puretuista rakennuksista

#### General information

Publication status: Published

MoE publication type: D1 Article in a trade journal

Organisations: Architecture, Research group: Built Environment in Transition

Contributors: Huuhka, S.

Number of pages: 4

Pages: 24-27

Publication date: Sep 2017

Peer-reviewed: Unknown

#### Publication information

Journal: RY Rakennettu ympäristö

Volume: 54

Issue number: 3

ISSN (Print): 1457-9510

Original language: Finnish

URLs:

<http://proofer.faktor.fi/epaper/RY317/#24>

Research output: Contribution to journal › Article › Professional

## **Kaapelitehdas 25 v., avoimet ovet, näyttely**

### **General information**

Publication status: Published

MoE publication type: F1 Published independent work of art

Organisations: Architecture

Contributors: Panu, A.

Publication date: Aug 2017

Research output: Artistic and non-textual form › Exhibition › Solo art production

## **Konstrundan 2017, öppna dörrar, exhibition**

### **General information**

Publication status: Published

MoE publication type: F1 Published independent work of art

Organisations: Architecture

Contributors: Panu, A.

Publication date: Aug 2017

Research output: Artistic and non-textual form › Exhibition › Solo art production › peer-review

## **Arkkitehti arvioi messutaloja: "Tätä ei ole ennen nähty"**

### **General information**

Publication status: Published

MoE publication type: E1 Popularised article, newspaper article

Organisations: Architecture, Research group: ASUTUT

Contributors: Tarpio, J.

Number of pages: 6

Pages: 52-57

Publication date: Jul 2017

Peer-reviewed: Unknown

### **Publication information**

Journal: Meidän talo

Volume: 2017

Issue number: 7

ISSN (Print): 1455-2825

Original language: Finnish

Research output: Contribution to journal › Article › General public

## **Echoes - 100 Years in Finnish Design and Architecture: Polin, Vellamo**

### **General information**

Publication status: Published

MoE publication type: F1 Published independent work of art

Organisations: Architecture, Research group: Architecture: History and Theory

Contributors: Lahdelma, I.

Publication date: 29 Jun 2017

Research output: Artistic and non-textual form › Exhibition › Solo art production › peer-review

## **Energiatehokas kyläkoulu puusta: Lähes nollaenergiakoulu Laukaalle**

This master's thesis is a design proposal for an energy efficient wooden school, which considers the new approach of teaching and learning methods of the new curriculum of Finnish National Board of Education. This is a case study -like thesis and a proposal for the ongoing ecological school -project of the municipality of Laukaa, even though the emphasis is on the energy efficiency. The written part of the thesis is a comprehensive design narrative about the development, solutions, the argumentation behind it, and deliberating of these matters. This master's thesis is a concrete example of a transformable and cosy school which energy efficiency is certified by calculations.

This master's thesis is part of the research project COMBI, which is led by Tampere University of Technology (TUT) and explores the concept of nearly zero-energy in the context of municipal service buildings. The thesis is included in the work package titled The Impact of Architecture on Energy Efficiency, carried out by TUT's School of Architecture. The work package's aim is to study current and future energy efficient building solutions as well as develop a tool for guiding the design and illustrating the connections between various aspects of energy efficient architectural design.

### General information

Publication status: Published  
MoE publication type: G2 Master's thesis, polytechnic Master's thesis  
Organisations: Architecture  
Contributors: Nissilä, K.  
Number of pages: 64  
Publication date: 7 Jun 2017

### Publication information

Publisher: Tampereen teknillinen yliopisto  
ISBN (Print): 978-952-15-3961-9  
Original language: Finnish

### Publication series

Name: Tampereen teknillinen yliopisto. Arkkitehtuurin laboratorio. Asuntosuunnittelu. Julkaisu  
Volume: 28  
ISSN (Electronic): 2489-429X  
Electronic versions:

Nissila

Nissila\_planssit

URLs:

<http://urn.fi/URN:ISBN:978-952-15-3961-9>

Research output: Book/Report > Master's Thesis > Scientific

### Pistepilvitiedon hyödyntäminen korjausrakennushankkeen arkkitehtisuunnittelussa

The field of repairs and renovations is constantly growing when viewed from the monetary value point of view. According to estimations made by experts, the field is facing a need for a substantial growth in resources or efficiency. One of the potential methods for increasing the efficiency in repair and renovation projects is the growing use of point cloud data technology.

Point cloud data is a dense group of three-dimensional measurements, which can be used to establish a three-dimensional model of an existing building. The most significant advantage in using point cloud data, is the three-dimensional nature and the accuracy of the measurements. Current methods for 3D-modeling an existing building rely on unreliable old blueprints and arduous measuring. The use of point cloud data simplifies the process of 3D-modeling an existing building.

This research is divided in to a theoretical part and interviews. In the theoretical part of the research I go through the different forms of information used in modeling existing structures and their qualities. At the same time, I zoom in to the terminology of point cloud data. The current terminology is used in conflicting manners and therefore I have redefined several terms. I also examine the effects of Common BIM Requirements 2012 to the information and methods used to model existing buildings.

The interviews were carried out to gather user experience to the subjects covered in the theoretical part of the research. Notable themes in the interviews were the situation of the field of repairs and renovations, the qualities of point cloud data in projects, requirements in the Common BIM Requirements 2012 and the interpretation of the above requirements in modeling existing buildings.

This research serves the field of repair and renovations in standardizing the methods used with point cloud data. With this research, architectural designers can pay attention to special features that point cloud data introduces to repair and renovation projects. With the help of this research, architectural designers can critically evaluate the information used in the project and can recommend additional information to be created.

### General information

Publication status: Published  
MoE publication type: G2 Master's thesis, polytechnic Master's thesis  
Organisations: Architecture  
Contributors: Savisaari, A.  
Number of pages: 89  
Publication date: 7 Jun 2017

### Publication information

Publisher: Tampereen teknillinen yliopisto  
ISBN (Electronic): 978-952-15-3950-3  
Original language: Finnish

### Publication series

Name: Tampereen teknillinen yliopisto. Arkkitehtuurin laboratorio. Muuttuva rakennettu ympäristö. Julkaisu

Volume: 3

ISSN (Electronic): 2489-4281

Electronic versions:

Savisaari

URLs:

<http://urn.fi/URN:ISBN:978-952-15-3950-3>

Research output: Book/Report › Master's Thesis › Scientific

### Tulevaisuuden koulu: Arkkitehtuurin neljä näkökulmaa ekologiseen rakentamiseen

#### General information

Publication status: Published

MoE publication type: G2 Master's thesis, polytechnic Master's thesis

Organisations: Architecture

Contributors: Vuorinen, J.

Number of pages: 104

Publication date: 7 Jun 2017

#### Publication information

Publisher: Tampereen teknillinen yliopisto

ISBN (Electronic): 978-952-15-3962-6

Original language: Finnish

### Publication series

Name: Tampereen teknillinen yliopisto. Arkkitehtuurin laboratorio. Asuntosuunnittelu. Julkaisu

Volume: 29

ISSN (Electronic): 2489-429X

Electronic versions:

Vuorinen

URLs:

<http://urn.fi/URN:ISBN:978-952-15-3962-6>

Research output: Book/Report › Master's Thesis › Scientific

### Pietarsaaren Ristikari, Yhdyskuntasuunnittelun ammattikurssi 1 2017

#### General information

Publication status: Published

MoE publication type: D4 Published development or research report or study

Organisations: Architecture, Research group: Urban Planning and Design

Contributors: Rajaniemi, J. (ed.), Chudoba, M. (ed.), Laine, O. (ed.)

Number of pages: 117

Publication date: Jun 2017

#### Publication information

Place of publication: Tampere

Publisher: Tampere University of Technology, School of Architecture

ISBN (Print): 978-952-15-3969-5

ISBN (Electronic): 978-952-15-3970-1

Original language: Finnish

Electronic versions:

ristikari\_lopullinen\_nettiin

URLs:

<http://urn.fi/URN:ISBN:978-952-15-3970-1>

Research output: Book/Report › Commissioned report › Professional

### Yksilö yhteisössä: Ikääntyneiden yksinäisyyden vähentäminen yhteisöllisellä asumisella

Loneliness is a current phenomenon in the Finnish society that has been discussed more recently in the public discourse. Loneliness can have an impact on any individual and has an extensive influence on the well-being of a person. This thesis is focused on the loneliness experienced by Finnish elderly living at home or in assisted care. It has been discovered in this thesis that experience of the loneliness and housing solutions are strongly linked. Housing solutions can either enhance or reduce the experience of loneliness.

Home and the relationship the resident has with his/her home is important to the wellbeing of the elderly. Home is often associated with different kinds of meanings and the relationship between home and ageing resident is discussed in this thesis. The idea of ageing in place has been accepted as the best solution to solve the future housing of the elderly by both society and elderly themselves. Ageing in place ensures the self-determination and independency of the elderly but does not solve the loneliness experienced by the elderly. Thus ageing in community is proposed as solution to the loneliness in this thesis. The proposed co-housing concept offers the possibility to age at home in a familiar environment but with the help of community and neighborhood.

The thesis is divided into three parts. Loneliness and co-housing are discussed in regards of different theories in the research section of the work. The themes discussed in the research section are loneliness, the experience of loneliness in relation to the environment and co-housing. Model for housing which is based on the themes found in the research section is constructed in the concept section of the thesis. Last section of the thesis consists of the application of the housing concept on one chosen planning area. The housing plan is based on the Architectural student competition Rääkkylän Mummola which was held in spring 2016. The purpose of the competition was to find housing solutions for 55+ residents. The proposed plan in this thesis is developed based on the themes found in research section and comments made in the review of the competition entries.

#### **General information**

Publication status: Published  
MoE publication type: G2 Master's thesis, polytechnic Master's thesis  
Organisations: Architecture  
Contributors: Rusanen, M.  
Number of pages: 154  
Publication date: 16 May 2017

#### **Publication information**

Publisher: Tampereen teknillinen yliopisto  
ISBN (Print): 978-952-15-3948-0  
ISBN (Electronic): 978-952-15-3949-7  
Original language: Finnish

#### **Publication series**

Name: Tampereen teknillinen yliopisto. Arkkitehtuurin laitos. Asuntosuunnittelu. Julkaisu  
Volume: 27  
ISSN (Print): 2242-4598  
Electronic versions:  
Rusanen  
URLs:  
<http://urn.fi/URN:ISBN:978-952-15-3949-7>  
Research output: Book/Report > Master's Thesis > Scientific

#### **Status and possibilities of timber construction in Finland**

Status and possibilities of timber construction in Finland

#### **General information**

Publication status: Published  
MoE publication type: D2 Article in professional manuals or guides or professional information systems or text book material  
Organisations: Architecture, Research group: Built Environment in Transition  
Contributors: Karjalainen, M.  
Number of pages: 5  
Pages: 35-39  
Publication date: 15 May 2017

#### **Host publication information**

Title of host publication: Wood-based bioeconomy solving global challenges  
Volume: MEAE 2/2017  
Place of publication: Helsinki  
Publisher: Ministry of Economic Affairs and Employment of Finland  
Editor: Lilja, K.  
ISBN (Print): 978-952-327-214-9  
ISBN (Electronic): 978-952-327-215-6

#### **Publication series**

Name: MEAE guidelines and other publications  
Publisher: Ministry of Economic Affairs and Employment of Finland

ISSN (Print): 2342-7914

ISSN (Electronic): 2342-7922

URLs:

<https://tem.fi/documents/1410877/2937056/Status+and+possibilities+of+wood+construction+in+Finland>

Research output: Chapter in Book/Report/Conference proceeding › Chapter › Professional

## **Echoes - 100 Years in Finnish Design and architecture: Polin, Vellamo**

### **General information**

Publication status: Published

MoE publication type: F1 Published independent work of art

Organisations: Architecture, Research group: Architecture: History and Theory

Contributors: Lahdelma, I.

Publication date: 2 Mar 2017

Research output: Artistic and non-textual form › Exhibition › Solo art production › peer-review

## **Polish Jewish history museum, Polin**

### **General information**

Publication status: Published

MoE publication type: D1 Article in a trade journal

Organisations: Architecture, Research group: Architecture: History and Theory

Contributors: Lahdelma, I.

Publication date: Mar 2017

Peer-reviewed: Unknown

### **Publication information**

Journal: YAPI, Architecture, Design, Culture and art magazine, Turkki

Volume: 424

Issue number: 3

Original language: English

URLs:

[http://www.yapidergisi.com/V\\_images/DergiSayilari/424icindekiler.pdf](http://www.yapidergisi.com/V_images/DergiSayilari/424icindekiler.pdf)

Research output: Contribution to journal › Article › Professional

## **Extending the life of virtual heritage: Reuse of TLS point clouds in synthetic stereoscopic spherical images**

Recent advances in Terrestrial Laser Scanner (TLS), in terms of cost and flexibility, have consolidated this technology as an essential tool for the documentation and digitalization of Cultural Heritage. However, once the TLS data is used, it basically remains stored and left to waste. How can highly accurate and dense point clouds (of the built heritage) be processed for its reuse, especially to engage a broader audience? This paper aims to answer this question by a channel that minimizes the need for expert knowledge, while enhancing the interactivity with the as-built digital data: Virtual Heritage Dissemination through the production of VR content. Driven by the ProDigiOUs project's guidelines on data dissemination (EU funded), this paper advances in a production path to transform the point cloud into virtual stereoscopic spherical images, taking into account the different visual features that produce depth perception, and especially those prompting visual fatigue while experiencing the VR content. Finally, we present the results of the Hiedanranta's scans transformed into stereoscopic spherical animations.

### **General information**

Publication status: Published

MoE publication type: A4 Article in a conference publication

Organisations: Architecture, Research group: EDGE

Contributors: Garcia Fernandez, J., Tammi, K., Joutsiniemi, A.

Number of pages: 7

Pages: 317-323

Publication date: 23 Feb 2017

### **Host publication information**

Title of host publication: 3D Virtual Reconstruction and Visualization of Complex Architectures

Publisher: ISPRS

### **Publication series**

Name: International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives

ISSN (Electronic): 2194-9034

ASJC Scopus subject areas: Information Systems, Geography, Planning and Development

Keywords: Point cloud, Reuse, Spherical images, Stereoscopic, Terrestrial Laser Scanner, VR

Electronic versions:

isprs-archives-XLII-2-W3-317-2017

DOIs:

10.5194/isprs-archives-XLII-2-W3-317-2017

URLs:

<http://urn.fi/URN:NBN:fi:tty-201708071657>

#### **Bibliographical note**

jufoid=83846

Source: Scopus

Source ID: 85021701753

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

#### **Universal Accessibility: On the need of an empathy-based architecture**

Universal Accessibility: On the need of an empathy-based architecture is a PhD thesis researching the paradigm of accessible architectural design. Starting from the very first understanding of accessibility in architecture, it analyses the evolution of the concept over recent decades up to the present, in order to evaluate its current significance.

The assumption of this dissertation is that all current theories concerning accessibility in architecture are not properly approached and/or they are poorly linked to architectural practice, since the main postulate of this thesis is that the quality of built environments is poor in respect to accessibility. Therefore, this thesis aims to point out the main problems that accessible designs face nowadays and, more importantly, to rationalize why this situation must be reversed while also exploring the tools for doing this.

#### **General information**

Publication status: Published

MoE publication type: G4 Doctoral dissertation (monograph)

Organisations: Architecture

Contributors: Bordas Eddy, M.

Number of pages: 278

Publication date: 10 Feb 2017

#### **Publication information**

Publisher: Tampere University of Technology

ISBN (Print): 978-952-15-3873-5

ISBN (Electronic): 978-952-15-3891-9

Original language: English

#### **Publication series**

Name: Tampere University of Technology. School of Architecture. Housing Design

Volume: 26

ISSN (Print): 2242-4598

Keywords: universal accessibility, empathy, disabilities simulation, unnoticed accessibility, enabling design

Electronic versions:

Marta Bordas Eddy - Universal Accessibility

URLs:

<http://urn.fi/URN:ISBN:978-952-15-3891-9>

Research output: Book/Report › Doctoral thesis › Monograph

#### **Ryhdistävä asuntopolitiikkaa Helsingissä? Blogikirjoitus**

#### **General information**

Publication status: Published

MoE publication type: E1 Popularised article, newspaper article

Organisations: Architecture

Contributors: Tarpio, J., Leino, H.

Publication date: 1 Feb 2017

Peer-reviewed: Unknown

#### **Publication information**

Journal: Dwellers in Agile Cities -sivusto

Original language: Finnish

URLs:



<http://www.agilecities.fi/2017/02/01/ryhdikasta-asuntopolitiikka-helsingissa/>

URLs:

<http://www.agilecities.fi/>

Research output: Contribution to journal › Article › General public

## Echoes - 100 Years in Finnish Design and Architecture: Polin, Vellamo

### General information

Publication status: Published

MoE publication type: F1 Published independent work of art

Organisations: Architecture, Research group: Architecture: History and Theory

Contributors: Lahdelma, I.

Publication date: 13 Jan 2017

Research output: Artistic and non-textual form › Exhibition › Solo art production › peer-review

## Linking demand and supply factors in identifying cultural ecosystem services of urban green infrastructures: A review of European studies

Abstract Urban green infrastructure provides a number of cultural ecosystem services that are greatly appreciated by the public. In order to benefit from these services, actual contact with the respective ecosystem is often required. Furthermore, the type of services offered depend on the physical characteristics of the ecosystem. We conducted a review of publications dealing with demand or social factors such as user needs, preferences and values as well as spatially explicit supply or physical factors such as amount of green space, (bio)diversity, recreational infrastructure, etc. and linking demand and supply factors together. The aim was to provide an overview of this highly interdisciplinary research, to describe how these linkages are being made and to identify which factors significantly influence dependent variables such as levels of use, activities or health and well-being benefits. Commonly used methods were the combination of questionnaires with either on-site visual recording of elements or GIS data. Links between social and physical data were usually established either by using statistical tools or by overlaying different thematic maps. Compared to the large number of variables assessed in most studies, the significant effects in the end were relatively few, not consistent across the studies and largely dependent on the context they were seen in. Studies focused on aesthetic and recreational services, while spiritual, educational and inspirational services were not considered when creating links to spatially explicit ecological structures. We conclude that an improvement and harmonization of methodologies, cross-country studies and an expansion of this line of research to a wider range of services and more user groups could help clarify relationships and thereby increase applicability for urban management and planning.

### General information

Publication status: Published

MoE publication type: A1 Journal article-refereed

Organisations: School of Architecture, Research group: Urban Planning

Contributors: Hegetschweiler, K. T., de Vries, S., Arnberger, A., Bell, S., Brennan, M., Siter, N., Olafsson, A. S., Voigt, A., Hunziker, M.

Number of pages: 12

Pages: 48-59

Publication date: Jan 2017

Peer-reviewed: Yes

Early online date: 13 Nov 2016

### Publication information

Journal: Urban Forestry and Urban Greening

Volume: 21

ISSN (Print): 1618-8667

Ratings:

Scopus rating (2017): CiteScore 3.9 SJR 1.037 SNIP 1.307

Original language: English

Keywords: Factors influencing well-being benefits, Linkage of social and physical data, Spatially explicit, Urban forestry, Urban green space

DOIs:

10.1016/j.ufug.2016.11.002

Source: RIS

Source ID: urn:9A2A4A2AE5A225AD9825430F312C0F39

Research output: Contribution to journal › Article › Scientific › peer-review

## Oulun Asemakeskus

### General information

Publication status: Published  
MoE publication type: D1 Article in a trade journal  
Organisations: Architecture, Research group: Architecture: History and Theory  
Contributors: Lahdelma, I.  
Publication date: Jan 2017  
Peer-reviewed: Unknown

### Publication information

Journal: Fassadentechnik  
Issue number: 1  
Original language: English  
Research output: Contribution to journal › Article › Professional

## Rakennuksia tyhjiillään keskuksissa ja syrjäseuduilla: Kannattaako uutta rakentaa?

### General information

Publication status: Published  
MoE publication type: D1 Article in a trade journal  
Organisations: Architecture, Research group: Built Environment in Transition  
Contributors: Huuhka, S.  
Pages: 24-25  
Publication date: Jan 2017  
Peer-reviewed: Unknown

### Publication information

Journal: Araviesti  
Volume: 2017  
Issue number: 1  
ISSN (Print): 1457-8093  
Original language: Finnish  
URLs:  
<http://www.ara.fi/download/noname/%7B80CDE0B8-5496-49F2-85B4-63FB1EEA13EE%7D/124340>  
[http://www.ara.fi/fi-FI/ARAtietopankki/ARAviesti/ARAviestin\\_verkkoartikkelit/Nakokolma\\_Rakennuksia\\_tyhjillaan\\_keskuks%2841812%29](http://www.ara.fi/fi-FI/ARAtietopankki/ARAviesti/ARAviestin_verkkoartikkelit/Nakokolma_Rakennuksia_tyhjillaan_keskuks%2841812%29)  
Research output: Contribution to journal › Article › Professional

## Ajatuksia kaupunkiasumisen tulevaisuudesta

### General information

Publication status: Published  
MoE publication type: D1 Article in a trade journal  
Organisations: Architecture, Research group: Architecture: History and Theory  
Contributors: Kalakoski, I.  
Pages: 16-17  
Publication date: 2017  
Peer-reviewed: Unknown

### Publication information

Journal: Arkkitehtiutiset  
Issue number: 5/2017  
ISSN (Print): 0044-8915  
Original language: Finnish  
Research output: Contribution to journal › Article › Professional

## Alma Mater ja keihäänkärjet. Pääkirjoitus.

### General information

Publication status: Published  
MoE publication type: D1 Article in a trade journal  
Organisations: Architecture, Research group: Architecture: History and Theory  
Contributors: Kalakoski, I.  
Publication date: 2017

Peer-reviewed: Unknown

### Publication information

Journal: Arkkitehtiutiset

Issue number: 3

ISSN (Print): 0044-8915

Original language: Finnish

URLs:

[http://www.safa.fi/fin/julkaisut/arkkitehtiutiset\\_au/nbspnbsparkisto/](http://www.safa.fi/fin/julkaisut/arkkitehtiutiset_au/nbspnbsparkisto/)

Research output: Contribution to journal › Editorial › Professional

### An urban cellular automata model for simulating dynamic states on a local scale

In complex systems, flexibility and adaptability to changes are crucial to the systems' dynamic stability and evolution. Such resilience requires that the system is able to respond to disturbances by self-organizing, which implies a certain level of entropy within the system. Dynamic states (static, cyclical/periodic, complex, and chaotic) reflect this generative capacity, and correlate with the level of entropy. For planning complex cities, we need to develop methods to guide such autonomous progress in an optimal manner. A classical apparatus, cellular automaton (CA), provides such a tool. Applications of CA help us to study temporal dynamics in self-organizing urban systems. By exploring the dynamic states of the model's dynamics resulting from different border conditions it is possible to discover favorable set(s) of rules conducive to the self-organizing dynamics and enable the system's recovery at the time of crises. Level of entropy is a relevant measurement for evaluation of these dynamic states. The 2-D urban cellular automaton model studied here is based on the microeconomic principle that similar urban activities are attracted to each other, especially in certain self-organizing areas, and that the local dynamics of these enclaves affect the dynamics of the urban region by channeling flows of information, goods and people. The results of the modeling experiment indicate that the border conditions have a major impact on the model's dynamics generating various dynamic states of the system. Most importantly, it seemed that the model could simulate a favorable, complex dynamic state with medium entropy level which may refer to the continuous self-organization of the system. The model provides a tool for exploring and understanding the effects of boundary conditions in the planning process as various scenarios are tested: resulting dynamics of the system can be explored with such "planning rules" prior to decisions, helping to identify planning guidelines that will support the future evolution of these areas.

### General information

Publication status: Published

MoE publication type: A1 Journal article-refereed

Organisations: Architecture, Research group: Urban Planning and Design

Contributors: Partanen, J.

Publication date: 2017

Peer-reviewed: Yes

### Publication information

Journal: Entropy

Volume: 19

Issue number: 1

Article number: 12

ISSN (Print): 1099-4300

Ratings:

Scopus rating (2017): CiteScore 3.4 SJR 0.592 SNIP 1.189

Original language: English

ASJC Scopus subject areas: Physics and Astronomy(all)

Keywords: Cellular automaton, Complexity theory, Dynamic states, Entropy, Evolution, Planning, Urban models

Electronic versions:

entropy-19-00012

DOIs:

10.3390/e19010012

URLs:

<http://urn.fi/URN:NBN:fi:tty-201705151397>

Additional files:

PARTANEN\_URBAN\_CELLULAR\_AUTOMATA\_MODEL

Source: Scopus

Source ID: 85009278908

Research output: Contribution to journal › Article › Scientific › peer-review

## Arkkitehtuuri esiin Helsingin strategiassa

### General information

Publication status: Published

MoE publication type: D1 Article in a trade journal

Organisations: Architecture, Research group: Urban Planning Theory, Research group: Urban Planning and Design

Contributors: Lehtovuori, P.

Number of pages: 1

Pages: 3

Publication date: 2017

Peer-reviewed: Unknown

### Publication information

Journal: Arkkitehtiutiset

Issue number: 9

ISSN (Print): 0044-8915

Original language: Finnish

URLs:

[http://www.e-julkaisu.fi/SAFA/au\\_arkkitehtiutiset/9\\_2017/](http://www.e-julkaisu.fi/SAFA/au_arkkitehtiutiset/9_2017/)

Research output: Contribution to journal › Article › Professional

## Arkkitehtuurin ja tilasuunnittelun vaikutus rakennuksen energiatehokkuuteen

### General information

Publication status: Published

MoE publication type: D3 Professional conference proceedings

Organisations: Architecture, Research group: ASUTUT, Tampere University of Applied Sciences (TAMK)

Contributors: Moisio, M., Lindberg, T., Kaasalainen, T., Mäkinen, A.

Number of pages: 6

Pages: 331–336

Publication date: 2017

### Host publication information

Title of host publication: Rakennusfysiikka 2017 : Uusimmat tutkimustulokset ja hyvät käytännön ratkaisut, 24-26.10.2017, Tampere

Place of publication: Tampere

Publisher: Tampereen teknillinen yliopisto, Rakennustekniikka, Rakennusfysiikka

Editors: Vinha, J., Kivioja, H.

ISBN (Electronic): 978-952-15-4022-6

URLs:

[http://www.tut.fi/cs/groups/public\\_news/@l102/@web/@p/documents/liit/x229155.pdf](http://www.tut.fi/cs/groups/public_news/@l102/@web/@p/documents/liit/x229155.pdf)

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Professional

## Atmosfäärien salainen voima

### General information

Publication status: Published

MoE publication type: D1 Article in a trade journal

Organisations: Architecture, Research group: Architecture: History and Theory

Contributors: Passinmäki, P.

Number of pages: 2

Pages: 82-83

Publication date: 2017

Peer-reviewed: Unknown

### Publication information

Journal: Arkkitehti

Volume: 114

Issue number: 2

ISSN (Print): 0783-3660

Original language: Finnish

Research output: Contribution to journal › Article › Professional

## Betonia päiväkotiin, sirkukseen ja teatteriin, TTY:n Arkkitehtuurinlaitoksen Betonistudio 2016

### General information

Publication status: Published  
MoE publication type: D1 Article in a trade journal  
Organisations: Architecture, Research group: Built Environment in Transition  
Contributors: Pesonen, M.  
Number of pages: 7  
Pages: 64-70  
Publication date: 2017  
Peer-reviewed: Unknown

### Publication information

Journal: *Betoni*  
Issue number: 1  
ISSN (Print): 1235-2136  
Original language: Finnish  
URLs:  
<http://betoni.com/betonilehti/1-2017/>  
Research output: Contribution to journal › Article › Professional

### Comparing two methods for Urban Complexity calculation using Shannon-Wiener index

This study will compare the results of measuring Urban Complexity using Shannon-Wiener index in two different methods. Using a joint dataset retrieved from Foursquare API, we will measure the degree of urban complexity of every street 1. relating every amenity to the closest street segment in a computational way and then applying the calculation to the segments, and 2. applying the calculation to every cell of a grid that will be combined with the street network afterwards. The selected case study is the city of London and the dataset employed will be retrieved from Foursquare. Over 79,000 venues were collected and classified in over 660 categories. In order to proceed to the analysis, these 660 categories will be reduced to 10 based on the classification of activities observed in the public space from the traditional urban discipline. Then the urban complexity index of each Street segment of London will be measured as a simultaneous calculation of the density and diversity of collected and classified economic activities.

### General information

Publication status: Published  
MoE publication type: A4 Article in a conference publication  
Organisations: Architecture, University of Alicante, SPIN Unit  
Contributors: López Baeza, J., Cerrone, D., Männigo, K.  
Number of pages: 10  
Pages: 369-378  
Publication date: 2017

### Host publication information

Title of host publication: Comparing two methods for Urban Complexity calculation using Shannon-Wiener index  
Publisher: WIT Press

### Publication series

Name: WIT Transactions on Ecology and The Environment  
Volume: 226  
ISSN (Print): 1743-3541  
ISSN (Electronic): 1746-448X  
DOIs:  
10.2495/SDP170321  
Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

## Ikkunoita metamorfologiaan

### General information

Publication status: Published  
MoE publication type: E1 Popularised article, newspaper article  
Organisations: Architecture, Research group: Urban Planning and Design, Research group: Urban Planning Theory  
Contributors: Cerrone, D., Lehtovuori, P.  
Publication date: 2017  
Peer-reviewed: Unknown

### Publication information

Journal: Arkkitehti-lehti, Finnish Architectural Review

Issue number: 4

Original language: English

Keywords: metamorphology, workshop, ARCHITECTURE, cultural analytics, city form, urbanism

URLs:

<http://www.ark.fi/kaikki-numerot/3173-asuminen-kaupungissa>

Research output: Contribution to journal › Article › General public

## Järviluontokeskus Tampere, Lake Nature Center Tampere

### General information

Publication status: Published

MoE publication type: D5 Text book, professional manual or guide or a dictionary

Organisations: Architecture, Research group: Built Environment in Transition

Contributors: Karjalainen, M. (ed.), Pesonen, M. (ed.)

Number of pages: 59

Publication date: 2017

### Publication information

Place of publication: Tampere

Publisher: Tampereen teknillinen yliopisto. Arkkitehtuurin laitos. Rakennusoppi

ISBN (Print): 978-952-15-3958-9

Original language: Finnish

Research output: Book/Report › Book › Professional

## Kalevan kirkko / Kaleva Church

### General information

Publication status: Published

MoE publication type: D2 Article in professional manuals or guides or professional information systems or text book material

Organisations: Architecture, Research group: Architecture: History and Theory

Contributors: Koponen, O.

Number of pages: 2

Pages: 168-169

Publication date: 2017

### Host publication information

Title of host publication: Docomomo Suomi / Docomomo Finland : Kohdeluettelo / Register Selection

Publisher: Docomomo Suomi Finland ry

ISBN (Print): 978-952-93-9292-6

Research output: Chapter in Book/Report/Conference proceeding › Chapter › Professional

## Katsaus vähähiilisyden edistämiseen

### General information

Publication status: Published

MoE publication type: D4 Published development or research report or study

Organisations: Civil Engineering, Architecture

Contributors: Sorri, J., Edelman, H.

Number of pages: 56

Publication date: 2017

### Publication information

Publisher: Tampereen teknillinen yliopisto

ISBN (Electronic): 978-952-15-4024-0

### Publication series

Name: Tampereen teknillinen yliopisto. Rakennustekniikan laboratorio. Rakennustuotanto ja -talous. Raportti

Volume: 21

ISSN (Print): 2489-5717

Electronic versions:

vahahiilisyys

URLs:

<http://urn.fi/URN:ISBN:978-952-15-4024-0>

Research output: Working paper › Discussion paper › Professional

### **Kaupunginosan näköinen koti**

#### **General information**

Publication status: Published

MoE publication type: E1 Popularised article, newspaper article

Organisations: Architecture, Research group: Architecture: History and Theory

Contributors: Kalakoski, I.

Publication date: 2017

Peer-reviewed: Unknown

#### **Publication information**

Journal: DOT Design on Tampere

Issue number: 5

Original language: Finnish

URLs:

<http://designontampere.com/dot-lehti/>

Research output: Contribution to journal › Article › General public

### **Kohtaavatko yhdyskuntasuunnittelun muuttuvat tehtävät ja monitieteinen koulutus toisensa?**

#### **General information**

Publication status: Published

MoE publication type: B1 Article in a scientific magazine

Organisations: Research group: Urban Planning and Design, Architecture

Contributors: Norvasuo, M.

Publication date: 2017

Peer-reviewed: No

#### **Publication information**

Journal: Yhdyskuntasuunnittelu

Volume: 55

Issue number: 4

ISSN (Print): 1459-6806

Original language: Finnish

URLs:

<http://www.yss.fi/journal/kohtaavatko-yhdyskuntasuunnittelun-muuttuvat-tehtavat-ja-monitieteinen-koulutus-toisensa/>

Research output: Contribution to journal › Article › Scientific

### **Kultivoituneet luolamiehet**

#### **General information**

Publication status: Published

MoE publication type: D1 Article in a trade journal

Organisations: Architecture

Contributors: Koponen, O.

Number of pages: 2

Pages: 35-36

Publication date: 2017

Peer-reviewed: Unknown

#### **Publication information**

Journal: Arkkitehti

Volume: 2017

Issue number: 5

ISSN (Print): 0783-3660

Original language: Finnish

Research output: Contribution to journal › Article › Professional

## Kulttuuria yhdyskuntarakenteessa? Urbanin yhteisöllisyyden muuttuvat tulkinnat

### General information

Publication status: Published

MoE publication type: A3 Part of a book or another research book

Organisations: Architecture, Research group: Urban Planning and Design, Aalto University

Contributors: Lilius, J., Norvasuo, M.

Number of pages: 20

Pages: 230-249

Publication date: 2017

### Host publication information

Title of host publication: Kulttuurisuunnittelu : Kaupunkikehittämisen uusi näkökulma

Volume: 258

Place of publication: Helsinki

Publisher: SUOMALAISEN KIRJALLISUUDEN SEURA

Editors: Häyrynen, M., Wallin, A.

ISBN (Print): 978-952-222-894-9

ISBN (Electronic): 952222894X

### Publication series

Name: Tietolipas

ISSN (Print): 0562-6129

### Bibliographical note

jufoid=68468

Research output: Chapter in Book/Report/Conference proceeding › Chapter › Scientific › peer-review

## Mitä arkkitehtuurista voi kertoa kuvataiteen avulla: Ville Lukkarisen kirjoitukset

### General information

Publication status: Published

MoE publication type: A1 Journal article-refereed

Organisations: Architecture, Research group: Architecture: History and Theory

Contributors: Koponen, O.

Number of pages: 7

Pages: 11-17

Publication date: 2017

Peer-reviewed: Yes

### Publication information

Journal: TAIDEHISTORIALLISTIA TUTKIMUKSIA

Issue number: 48

ISSN (Print): 0355-1938

Original language: Finnish

Research output: Contribution to journal › Article › Scientific › peer-review

## Miten korjata modernismia: Kitsch ja korjausrakentaminen

### General information

Publication status: Published

MoE publication type: D1 Article in a trade journal

Organisations: Architecture, Research group: Architecture: History and Theory

Contributors: Koponen, O., Mustonen, T., Horto, S., Woolston, S.

Publication date: 2017

Peer-reviewed: Unknown

### Publication information

Journal: Arkkitehti

Issue number: 1

ISSN (Print): 0783-3660

Original language: Finnish

Research output: Contribution to journal › Article › Professional



## Monipuolistaminen on hyvää asuntorakentamispolitiikkaa

### General information

Publication status: Published

MoE publication type: D1 Article in a trade journal

Organisations: Architecture, Research group: Urban Planning Theory, Research group: Urban Planning and Design

Contributors: Lehtovuori, P., Lehtovuori, O.

Publication date: 2017

Peer-reviewed: Unknown

### Publication information

Journal: RY Rakennettu ympäristö

Issue number: 4

ISSN (Print): 1457-9510

Original language: Finnish

URLs:

<http://proofer.faktor.fi/epaper/R417/index.html#30>

Research output: Contribution to journal › Article › Professional

## Multistorey timber apartment buildings are becoming common in forested Finland - Results of resident surveys point the way to the future of multistorey timber apartment buildings.

### General information

Publication status: Published

MoE publication type: D3 Professional conference proceedings

Organisations: Architecture, Research group: Built Environment in Transition

Contributors: Karjalainen, M.

Number of pages: 3

Pages: 415-417

Publication date: 2017

### Host publication information

Title of host publication: Proceedings of 5th Annual international Conference on Architecture and Civile Engineering (ACE 2017) : May 8-9, 2017, Singapore

Place of publication: Singapore

Publisher: Global Science & Technology Forum (GSTF)

Article number: 23

### Publication series

Name: Proceedings of 5th annual International Conference on Architecture and Civil Engineering

Publisher: Global Science & Technology Forum (GSTF)

ISSN (Print): 2301-394X

ISSN (Electronic): 2301-3958

DOIs:

[10.5176/2301-394X\\_ACE17.23](https://doi.org/10.5176/2301-394X_ACE17.23)

URLs:

<http://ace-conference.org/>

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Professional

## Puukerrostalojen asukas- ja rakennuttajakysely 2017 - loppuraportti 11.6.2017

### General information

Publication status: Published

MoE publication type: D4 Published development or research report or study

Organisations: Architecture, Research group: Built Environment in Transition

Contributors: Karjalainen, M.

Number of pages: 39

Publication date: 2017

### Publication information

Place of publication: Tampere

Publisher: Tampereen teknillinen yliopisto. Arkkitehtuurin laitos. Rakennusoppi

Original language: Finnish

URLs:

<http://www.ym.fi/download/noname/%7BDE24E1B6-B79D-4498-B7DE-DE837EE89D88%7D/128751>

Research output: Book/Report › Commissioned report › Professional

### **Self-organisation challenging institutional planning: towards a new urban research and planning paradigm – a Finnish review**

#### **General information**

Publication status: Published

MoE publication type: B1 Article in a scientific magazine

Organisations: Architecture, Research group: Urban Planning and Design, Suomen ympäristökeskus SYKE - Finnish Environment Institute

Contributors: Rantanen, A. (ed.), Faehnle, M. (ed.)

Publication date: 2017

Peer-reviewed: No

Early online date: 31 Dec 2017

#### **Publication information**

Journal: Yhdyskuntasuunnittelu

Volume: 55

Issue number: 3

ISSN (Print): 1459-6806

Original language: English

URLs:

<http://www.yss.fi/journal/self-organisation-challenging-institutional-planning-towards-a-new-urban-research-and-planning-paradigm-a-finnish-review/>

Research output: Contribution to journal › Editorial › Scientific

### **Self-organising city**

#### **General information**

Publication status: Published

MoE publication type: C2 Edited books

Organisations: Architecture, Research group: Urban Planning and Design, Suomen ympäristökeskus SYKE - Finnish Environment Institute

Contributors: Rantanen, A. (ed.), Faehnle, M. (ed.)

Publication date: 2017

Peer-reviewed: Yes

#### **Publication information**

Journal: Yhdyskuntasuunnittelu

Volume: 55

Issue number: 3

ISSN (Print): 1459-6806

Original language: English

URLs:

<http://www.yss.fi/yhdyskuntasuunnittelu-lehti/lehden-numerot/2017-3-vol-55/>

Research output: Contribution to journal › Special issue › Scientific › peer-review

### **Sinivalkoisia faktoja: Blue and white facts**

#### **General information**

Publication status: Published

MoE publication type: D1 Article in a trade journal

Organisations: Architecture

Contributors: Kalakoski, I.

Publication date: 2017

Peer-reviewed: Unknown

#### **Publication information**

Journal: Arkkitehti

Issue number: 2

ISSN (Print): 0783-3660

Original language: Finnish

Research output: Contribution to journal › Book/Film/Article review › Professional

## **Tempon talo: Tempo House**

### **General information**

Publication status: Published

MoE publication type: D2 Article in professional manuals or guides or professional information systems or text book material

Organisations: Architecture, Research group: Architecture: History and Theory

Contributors: Koponen, O.

Number of pages: 2

Pages: 42-43

Publication date: 2017

### **Host publication information**

Title of host publication: Docomomo Suomi / Docomomo Finland : Kohdevalikoima / Register Selection

Publisher: Docomomo Suomi Finland ry

ISBN (Print): 978-952-93-9792-6

Research output: Chapter in Book/Report/Conference proceeding › Chapter › Professional

## **Temporary uses producing difference in contemporary urbanism.**

### **General information**

Publication status: Published

MoE publication type: A3 Part of a book or another research book

Organisations: Architecture, Research group: Urban Planning and Design

Contributors: Lehtovuori, P., Ruoppila, S.

Number of pages: 18

Pages: 47-64

Publication date: 2017

### **Host publication information**

Title of host publication: Transience and permanence in urban development

Publisher: Wiley

Editor: Henneberry, J.

ISBN (Print): 978-1-119-05565-5

URLs:

<http://eu.wiley.com/WileyCDA/WileyTitle/productCd-1119055652,subjectCd-AR82.html>

Research output: Chapter in Book/Report/Conference proceeding › Chapter › Scientific › peer-review

## **Urbanism at a turning point. Modern, postmodern, now**

### **General information**

Publication status: Published

MoE publication type: A4 Article in a conference publication

Organisations: Architecture, Research group: Urban Planning Theory, Research group: Urban Planning and Design

Contributors: Lehtovuori, P., Varna, G.

Pages: 86-98

Publication date: 2017

### **Host publication information**

Title of host publication: From Postwar to Postmodern — 20th Century Built Cultural Heritage : The 6th Baltic Sea Region Cultural Heritage Forum in Kiel 28-30 September, 2016

Place of publication: Stockholm

Publisher: RIKSANTIKVARIEÄMBETET

ISBN (Print): 978-91-7209-800-8

URLs:

<https://www.kiel-heritage-forum-2016.eu/>

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

## **Urban metaMorphology Lab Tampere**

### **General information**

Publication status: Published

MoE publication type: I1 Audiovisual material

Organisations: Architecture, Research group: Urban Planning and Design, Research group: Urban Planning Theory, SPIN Unit

Contributors: Cerrone, D., Lehtovuori, P.

Publication date: 2017

Media of output: Online

Keywords: workshop, metamorphology, urban morphology, summer school, urban planning, architecture, cultural analytics  
URLs:

<http://www.spinunit.eu/metamorphology-tampere/>

Research output: Artistic and non-textual form › Web publication/site › Scientific

## **Woodblock: Два проекта для Кронштадт / Two projects for Kronstadt**

### **General information**

Publication status: Published

MoE publication type: D1 Article in a trade journal

Organisations: Research group: Built Environment in Transition, Architecture

Contributors: Frolov, V., Huuhka, S., Linov, V., Helin, P.

Number of pages: 7

Pages: 68-74

Publication date: 2017

Peer-reviewed: Unknown

### **Publication information**

Journal: Project Baltia

Issue number: 29

Original language: English

URLs:

<http://projectbaltia.com/en/archive-en/13825/>

Research output: Contribution to journal › Book/Film/Article review › Professional

### **Function and ornament: the modern of Louis Sullivan and Eliel Saarinen**

This article explores the search for modern architectural expression in the texts of Louis Sullivan and Eliel Saarinen. The latter was influenced by the former's architecture, but the main focus of the study is the comparison of their texts on architectural design process, or search for form. The similarities found in the texts tell of a like-minded design philosophy, which was based on observation and appreciation of nature. Nature contained ornaments; therefore architecture could do so as well. The applications of the ideas prompted by the common source differed in the work of these two architects, but the premise that ornaments could be a useful part of a modern architect's design vocabulary remained the same. The understanding of both architects' versions of contemporary form language has suffered from a strict modernist interpretation. The canonical image of functional architecture has resulted in the dismissal of many divergent interpretations of modern architectural language, including that of Sullivan and Saarinen. Although current use of architectural ornamentation stems from various sources and not necessarily nature, a look at the aesthetic search of these two architects at the turn of the previous century may lend some historical perspective to the use of architectural ornament today.

### **General information**

Publication status: Published

MoE publication type: A4 Article in a conference publication

Organisations: School of Architecture, Research group: Urban Planning

Contributors: Chudoba, M.

Number of pages: 22

Pages: 87-108

Publication date: 22 Dec 2016

### **Host publication information**

Title of host publication: Aesthetics - The Uneasy Dimension in Architecture

Publisher: Nordic Academic Press of Architectural Research

Editors: Toft, A. E., Rönn, M.

ISBN (Print): 978-91-983797-0-9

Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific > peer-review

### **Muutoksen epistemologia ja resilienssi tilalliset strategiat: Maankäytön ja suunnittelun mukautumis- ja muuntautumiskykyä tarkastelemassa**

The aim of this article is to question the capacity of our state-of-the-art urban planning and urban systems to adapt to continuous changes and disturbances in the operating environment. We contribute to the current debate of alleged rigidity of planning by observing adaptability and evolution from a spatial-functional systems angle. We argue that in an attempt to help cities adapt to uncertain futures, strategic planning would benefit from the epistemology of resilience and complex systems for a better performance. Resilience approach entails the notion that disturbances are non-avoidable and critical for the constant evolution of cities and regions. However, this knowledge lacks operationalisation in planning practice. We observe the adaptability of urban systems and planning by reflecting their qualitative resilience capacity, addressing implicit deficiencies due to hierarchical orientation and, propose a spatially oriented framework to help indicate resilience potential from urban morphological qualities.

#### **General information**

Publication status: Published

MoE publication type: A1 Journal article-refereed

Organisations: School of Architecture, Research group: EDGE

Contributors: Rantanen, A., Joutsiniemi, A.

Publication date: Dec 2016

Peer-reviewed: Yes

#### **Publication information**

Journal: Terra: Maantieteellinen Aikakauskirja

Volume: 128

Issue number: 4

ISSN (Print): 0040-3741

Ratings:

Scopus rating (2016): SJR 0.113 SNIP 0.136

Original language: Finnish

Research output: Contribution to journal > Article > Scientific > peer-review

### **Southdale Shopping Centre: Modernin kauppakeskuksen syntymästä 60 vuotta**

#### **General information**

Publication status: Published

MoE publication type: B1 Article in a scientific magazine

Organisations: School of Architecture

Contributors: Rantanen, A.

Publication date: Dec 2016

Peer-reviewed: No

#### **Publication information**

Journal: Yhdyskuntasuunnittelu

Volume: 54

Issue number: 4

ISSN (Print): 1459-6806

Original language: Finnish

Research output: Contribution to journal > Article > Scientific

### **Parantavat tilat silloin ja nyt: Meilahden pääsisäänkäyntiaula**

#### **General information**

Publication status: Published

MoE publication type: F1 Published independent work of art

Organisations: Architecture, Research group: Architecture: History and Theory

Contributors: Lahdelma, I.

Publication date: 25 Nov 2016

Research output: Artistic and non-textual form > Exhibition > Solo art production > peer-review

## Arkkitehtuuritutkimus nyt

### General information

Publication status: Published

MoE publication type: D1 Article in a trade journal

Organisations: School of Architecture, Research group: Urban Planning

Contributors: Chudoba, M.

Number of pages: 1

Pages: 15

Publication date: Nov 2016

Peer-reviewed: Unknown

### Publication information

Journal: Arkkitehtiutiset

Issue number: 11

ISSN (Print): 0044-8915

Original language: Finnish

URLs:

[http://www.e-julkaisu.fi/SAFA/au\\_arkkitehtiutiset/11\\_2016/mobile.html#pid=5](http://www.e-julkaisu.fi/SAFA/au_arkkitehtiutiset/11_2016/mobile.html#pid=5)

Research output: Contribution to journal > Article > Professional

## Visiting the world heritage town of old Rauma, Finland

### General information

Publication status: Published

MoE publication type: D3 Professional conference proceedings

Organisations: Architecture, Research group: Architecture: History and Theory

Contributors: Koponen, O.

Number of pages: 5

Pages: 45-49

Publication date: Nov 2016

### Host publication information

Title of host publication: Timber heritage and cultural tourism : values, innovation and visitor management, Bangkok, Thailand, 6-8 Nov. 2015

Place of publication: Bangkok, Thailand

Publisher: ICOMOS Thailand Association

ISBN (Print): 978-616-90599-7-4

Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Professional

## Building 'Post-Growth': Quantifying and Characterizing Resources in the Building Stock

Building stocks will play growing roles in the extraction of secondary construction materials in future. Moreover, as there is a need to decouple buildings' service provision from their material consumption, building stocks should, in fact, be considered not only as deposits of raw materials but also as reserves of space. Despite of their significance, these stocks tend neither to be well known nor systematically analysed. The end-of-life phase of buildings is especially poorly covered in research, although the aspects of buildings' mortality and survival are fundamentally intertwined. The omission is highly problematic, because it precludes understanding the fundamental dynamics of the stock.

The current study is situated in Finland, where the basic composition of the stock is relatively well established in the Building and Dwelling Register, contrary to many other countries. Taking advantage of statistical description, this dissertation explores the geography and characteristics of obsolete parts of the Finnish building stock, that is, demolished and problematically vacant buildings. The dynamics, or the relations, within the stock are also considered on a very basic level, with the help of a simple correlation analysis. In order to exemplify refining the results of this kind of top-down research, the study then switches to a bottom-up approach and zooms into the more specific composition of a selected age-use cohort, the 1960–80s blocks of flats. The types and dimensions of the cohort's components, or concrete panels, are inventoried, and the results are compared to the current requirements for dimensioning living spaces. Furthermore, the spatial configurations of flats, the service provided by these physical structures, are also investigated using graph theory informed typological methodology. The findings consist of a typology of flats characteristic to the cohort. Lastly, the extents of the reserves in the entire stock of demolished buildings, the stock of problematically vacant residential buildings and the exemplary cohort (its existing, vacant and demolished parts) are quantified and proportioned to each other and new construction, *inter alia*.

By highlighting the magnitudes of secondary deposits of materials, components and spaces, this dissertation suggests that public policy should start paying more attention to the building stock and the potentials embedded within it. Even though an unambiguous relation between vacancy and demolition was not identified, the key finding from the resource perspective is that significant amounts of obsolete buildings are geographically concentrated on cities. In order to practice sustainable policies on the building stock, planners and decision-makers should be better aware of these reserves and acknowledge their adaptation and modification capacities.

### General information

Publication status: Published

MoE publication type: G5 Doctoral dissertation (article)

Organisations: School of Architecture, Research group: Built Environment in Transition

Contributors: Huuhka, S.

Number of pages: 94

Publication date: 7 Oct 2016

### Publication information

Publisher: Tampere University of Technology

ISBN (Print): 978-952-15-3812-4

ISBN (Electronic): 978-952-15-3817-9

Original language: English

### Publication series

Name: Tampere University of Technology. Publication

Volume: 1414

ISSN (Print): 1459-2045

Electronic versions:

huuhka 1414

URLs:

<http://urn.fi/URN:ISBN:978-952-15-3817-9>

Research output: Book/Report > Doctoral thesis > Collection of Articles

## Melutaidegalleria, Santalahdentie vt 12

### General information

Publication status: Published

MoE publication type: F2 Public partial realisation of a work of art

Organisations: Architecture, Research group: Architecture: History, Theory and Innovations

Contributors: Soini, K.

Publication date: 1 Oct 2016

URLs:

<http://www.kaisasoini.fi/julkiset-teokset/melutaidegalleria/santalahti-vt-12-teksti.html>

<http://www.kaisasoini.fi/julkiset-teokset/melutaidegalleria/santalahti-vt-12-teoskuvia.html>

Research output: Artistic and non-textual form > Artefact > Art in coproduction > peer-review

## Melutaidegalleria, Soukanlahdenkatu

### General information

Publication status: Published

MoE publication type: F2 Public partial realisation of a work of art

Organisations: Architecture, Research group: Architecture: History, Theory and Innovations

Contributors: Soini, K.

Publication date: 1 Oct 2016

URLs:

<http://www.kaisasoini.fi/julkiset-teokset/melutaidegalleria/soukanlahdenkatu-teksti.html>

<http://www.kaisasoini.fi/julkiset-teokset/melutaidegalleria/soukanlahdenkatu-teoskuvia.html>

Research output: Artistic and non-textual form > Artefact > Art in coproduction > peer-review

## Tampereen Tesoman Tuomarinkadun korttelin suunnittelukilpailun taideaiheen suunnittelu

### General information

Publication status: Published

MoE publication type: F2 Public partial realisation of a work of art

Organisations: Architecture, Research group: Architecture: History, Theory and Innovations

Contributors: Soini, K.

Publication date: 1 Sep 2016

URLs:

<http://www.kaisasoini.fi/cv.html>

Research output: Artistic and non-textual form > Design > Art in coproduction > peer-review

## Monenlaista joustavuutta

### General information

Publication status: Published  
MoE publication type: D1 Article in a trade journal  
Organisations: School of Architecture  
Contributors: Tarpio, J.  
Number of pages: 10  
Pages: 12-21  
Publication date: Sep 2016  
Peer-reviewed: Unknown

### Publication information

Journal: Arkkitehti  
Volume: 2016  
Issue number: 4  
ISSN (Print): 0783-3660  
Original language: Finnish  
Electronic versions:  
ark\_4\_2016\_monenlaista\_joustavuutta  
URLs:  
<http://urn.fi/URN:NBN:fi:tyy-201709071869>  
Research output: Contribution to journal › Article › Professional

## Vacant residential buildings as potential reserves: a geographical and statistical study

Vacant housing has been associated with a variety of interests from economic implications and consequences for the urban structure to the possibility of providing housing for the homeless. In addition to these social and financial aspects, unused buildings have resources embedded in them. They take land from other activities and contain refined natural resources in the form of building components and materials. Therefore, empty buildings can be regarded as reserves for housing and repositories for urban mining, i.e. material extraction. In doing so, these buildings contribute to the resilience of cities. This geographical and statistical study on residential vacancies is situated in Finland, where empty homes may also keep using energy and producing emissions. The research material consists of a vast dataset of all residential buildings with vacancies in Finland in mid-2014, a total of 275 486 buildings with 1 100 267 occupied and 378 802 unoccupied dwellings (52% of the Finnish housing stock). The paper shows several characteristics that increase the understanding of vacancies and their role in the dynamics of the building stock. Public policy should address the issue of vacancy, not only because of social and economic implications but also because of its environmental impacts and opportunities.

### General information

Publication status: Published  
MoE publication type: A1 Journal article-refereed  
Organisations: School of Architecture, Research group: Built Environment in Transition  
Contributors: Huuhka, S.  
Number of pages: 24  
Pages: 816-839  
Publication date: Sep 2016  
Peer-reviewed: Yes  
Early online date: 2 Dec 2015

### Publication information

Journal: Building Research and Information  
Volume: 44  
Issue number: 8  
ISSN (Print): 0961-3218  
Ratings:  
Scopus rating (2016): CiteScore 5.1 SJR 1.335 SNIP 1.586  
Original language: English  
Keywords: building stock, housing stock, obsolescence, redundancy, resilient housing, resource efficiency, shrinking cities , vacancy rates, vacant buildings, value conservation, Finland  
Electronic versions:  
Huuhka\_Vacant\_residential\_buildings\_as\_potential\_reserves-A\_geographical\_and\_statistical\_study\_Accepted\_Manuscript.  
Embargo ended: 2/12/16



DOIs:

10.1080/09613218.2016.1107316

URLs:

<http://urn.fi/URN:NBN:fi:tty-201612294924>

Research output: Contribution to journal > Article > Scientific > peer-review

### **Accessibility improvement models for typical flats: Mass-customizable design for individual circumstances**

Elderly housing policies in Finland emphasize aging in place and preparing the existing housing stock for the predicted increase in the aged population. Timely home modifications that enhance mobile accessibility are a focal target for these policies. This article introduces the idea of mass-customizable architectural accessibility improvement models (AIMs) that have been developed for typical Finnish flats. The applicability and generalizability of an AIM designed for an archetypal two-room flat is tested by applying it to nine case buildings in the city of Tampere. The model was found to be beneficial for 42 of the 45 rooms in the research material.

#### **General information**

Publication status: Published

MoE publication type: A1 Journal article-refereed

Organisations: Research group: Built Environment in Transition, School of Architecture, Research group: ASUTUT

Contributors: Kaasalainen, T., Huuhka, S.

Number of pages: 24

Pages: 271-294

Publication date: 11 Aug 2016

Peer-reviewed: Yes

#### **Publication information**

Journal: Journal of Housing for the Elderly

Volume: 30

Issue number: 3

ISSN (Print): 0276-3893

Ratings:

Scopus rating (2016): CiteScore 1.2 SJR 0.312 SNIP 0.868

Original language: English

Keywords: housing, accessibility, renovation, elderly

Electronic versions:

Kaasalainen&Huuhka\_Accepted\_Manuscript

DOIs:

10.1080/02763893.2016.1198739

URLs:

<http://urn.fi/URN:NBN:fi:tty-201804041457>

Research output: Contribution to journal > Article > Scientific > peer-review

### **Imagined salad and steak restaurants: Consumers' colour, music and emotion associations with different dishes**

The aim of the present study was to examine people's colour, music and emotion associations with dishes from two imagined restaurants. We conducted an experiment where we asked two study-participant groups to match interior colours, background music and desired emotional states for either a salad restaurant or a steak restaurant. To evoke associations we used two dish photos – a salad and a steak dish. The hypothesis was that the study participants would choose different background music and colours for different imagined restaurants. The results show that the most often selected colour, music and musically evoked and desired emotions in the salad group were Kiwi (lime colour) combined with Jazz, Pop and Soul music, and Peacefulness and Joyful Activation. In the steak group the selections were Bordeaux (dark-red colour) combined with Jazz and Classical music, and Peacefulness, Transcendence, Tenderness and Joyful Activation. The results were discussed in terms of articulation theory that is widely used in critical cultural studies. The differences between the groups showed that the study participants made different kinds of articulations: the answers in the steak group emphasized romantic classical music and luxury, while the salad group emphasized vital (healthy food, dancing) and hedonistic (joy, pleasure) values. The results indicate that: (1) generally people value peaceful eating environments; (2) people choose different visual and auditory stimuli for an eating environment depending on the food menu; and (3) customers, in this case, expect a connection to their previous cultural experiences with salad and steak restaurants.

#### **General information**

Publication status: Published

MoE publication type: A1 Journal article-refereed

Organisations: School of Architecture

Contributors: Kontukoski, M., Paakki, M., Thureson, J., Uimonen, H., Hopia, A.

Number of pages: 11  
Pages: 1-11  
Publication date: Jul 2016  
Peer-reviewed: Yes

#### Publication information

Journal: International Journal of Gastronomy and Food Science  
Volume: 4  
ISSN (Print): 1878-450X  
Ratings:  
Scopus rating (2016): CiteScore 1 SJR 0.472 SNIP 1.199  
Original language: English  
Keywords: Colour of food, Music, Emotion, Eating environment, Articulation theory  
DOIs:  
10.1016/j.ijgfs.2016.04.001  
Source: RIS  
Source ID: urn:1F2332B75B3B0B67C3F9D13A4111792F  
Research output: Contribution to journal > Article > Scientific > peer-review

#### Puurakentamisen uusi nousu: Arkkitehti arvioi messutaloja

##### General information

Publication status: Published  
MoE publication type: E1 Popularised article, newspaper article  
Organisations: School of Architecture  
Contributors: Tarpio, J.  
Number of pages: 6  
Pages: 66-71  
Publication date: Jul 2016  
Peer-reviewed: Unknown

##### Publication information

Journal: Meidän talo  
Volume: 2016  
Issue number: 7  
ISSN (Print): 1455-2825  
Original language: Finnish  
Research output: Contribution to journal > Article > General public

#### Demolished buildings: Empirical evidence on types, ages and construction materials

Studies have found that from the ecological perspective, preservation of existing buildings is usually more sustainable than demolition and new construction. Knowledge about the characteristics of demolished buildings could help to promote renovation of buildings and to advance more sustainable management of building stocks, but so far the acquisition of comprehensive data has posed an immense challenge for research. Due to the lack of empirical evidence, the current understanding is largely based on theorizing. To participate in bridging this gap of knowledge, the current study takes advantage of data extracted from the Finnish Building and Dwelling Register. This data, which encompass all buildings demolished in Finland between 2000 and 2012 (50 818 buildings), are utilized to investigate the ages, decades of origin and construction materials and methods of demolished buildings by building types in 11 different categories from residential to non-residential. The results show that buildings are being demolished after remarkably short service lives. On average, the demolished buildings were only 51 years old — a service life that is considered as appropriate for temporary structures in the current design guidance. Furthermore, prefabricated buildings reached lives around 20 years, which is clearly less than with in situ built buildings. The average lives of buildings made of different materials were as follows: 54 years (timber buildings), 50 years (brick buildings), 40 years (concrete buildings) and 19 years (steel buildings). A comparison to statistics covering the existing stock showed that demolition is typically underrepresented in the youngest cohorts and overrepresented in older cohorts.

##### General information

Publication status: Published  
MoE publication type: A4 Article in a conference publication  
Organisations: School of Architecture, Research group: Built Environment in Transition  
Contributors: Huuhka, S.  
Number of pages: 8  
Pages: 1105-1112  
Publication date: 22 Jun 2016

### Host publication information

Title of host publication: CESB16 - Central Europe towards Sustainable Building 2016 : Innovations for Sustainable Future, June 22-24, 2016, Prague

Place of publication: Prague

Publisher: Czech Technical University in Prague

Editors: Hajek, P., Tywoniak, J., Lupisek, A., Sojkova, K.

ISBN (Print): 978-80-271-0248-8

ISBN (Electronic): 978-80-271-0248-8

URLs:

<http://cesb.cz/>

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

### Demolition Rates of Buildings with Different Functions and Construction Materials

Obsolescence of buildings is a complex phenomenon. Previous research has found that demolition of buildings is primarily determined by behavioural aspects, amongst which is the use of the building. At the same time, service life design of buildings keeps focusing strongly on physical factors, such as the durability of materials. This study intends to shed light on the relationship of the building's function and material by investigating demolition rates of Finnish buildings that are made of different materials (timber, concrete, bricks, steel) and that have different functions (10 categories, both residential and non-residential). The study uses demolition data from the Finnish Building and Dwelling Register (50 818 buildings – all buildings demolished between 2000 and 2012) and statistical data on the composition of the entire building stock. According to the results, the building type seems to be more decisive than the material. The highest loss rates take place amongst warehouse buildings.

### General information

Publication status: Published

MoE publication type: A4 Article in a conference publication

Organisations: School of Architecture, Research group: Built Environment in Transition

Contributors: Huuhka, S.

Number of pages: 7

Pages: 301-307

Publication date: 21 Jun 2016

### Host publication information

Title of host publication: YRSB16 - iiSBE Forum of Young Researchers in Sustainable Building 2016 : Innovations for Sustainable Future June 21, 2016, Prague

Place of publication: Prague

Publisher: Czech Technical University in Prague

Editors: Zelezna, J., Hajek, P., Tywoniak, J., Lupisek, A., Sojkova, K.

ISBN (Electronic): 978-80-01-05979-1

URLs:

<http://www.cesb.cz/yrsb/>

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

### Monikäyttöinen koulu: Joustavuudella ekologisuufta tilasuunnitteluun

This master's thesis maps the multifunctionality of a school building from different perspectives. The goal was to explore how enabling varied uses and flexible spatial solutions could make the school building more vivid and in better use. The goal was to show how this could be a new ecological angle for school design.

Another viewpoint for this master's thesis was the new national core curriculum for basic education, that sees the pupil as a active learner. The new core curriculum requires pedagogical flexibility for spatial solutions to enable different, changing teaching and learning methods. This master's thesis shows multifunctional and flexible spatial solutions for elementary school.

The master's thesis consists of a written part that is visualized by graphs. The research approaches multifunctionality from two perspectives: in building scale from user's and the function's perspective and in spatial level. In building scale, the thesis maps the characteristics of a school that can answer the needs of various users. These characteristics are illustrated among the text with the exemplary school design. In spatial level, multifunctionality is approached by presenting the spatial solutions for flexibility and applying them to school design in concept level. In conclusion, a conceptual design for a multifunctional school in Vartiosaari is presented.

This master's thesis is part of the research project COMBI, which is led by Tampere University of Technology (TUT) and explores the concept of nearly zero-energy in the context of municipal service buildings. The thesis is included in the work package titled The Impact of Architecture on Energy Efficiency, carried out by TUT's School of Architecture. The work package's aim is to study current and future energy efficient building solutions as well as develop a tool for guiding the design and illustrating the connections between various aspects of energy efficient architectural design.

### General information

Publication status: Published  
MoE publication type: G2 Master's thesis, polytechnic Master's thesis  
Organisations: Architecture  
Contributors: Mustila, L.  
Number of pages: 76  
Publication date: 7 Jun 2016

### Publication information

Publisher: Tampereen teknillinen yliopisto  
ISBN (Electronic): 978-952-15-3963-3  
Original language: Finnish

### Publication series

Name: Tampereen teknillinen yliopisto. Arkkitehtuurin laboratorio. Asuntosuunnittelu. Julkaisu  
Volume: 30  
ISSN (Print): 2489-429X  
Electronic versions:

Mustila

URLs:

<http://urn.fi/URN:ISBN:978-952-15-3963-3>

Research output: Book/Report › Master's Thesis › Scientific

### Venetsia biennial of architecture: Suomen Luontokeskus Haltia

#### General information

Publication status: Published  
MoE publication type: F1 Published independent work of art  
Organisations: Architecture, Research group: Architecture: History and Theory  
Contributors: Lahdelma, I.  
Publication date: 28 May 2016  
Research output: Artistic and non-textual form › Exhibition › Solo art production › peer-review

### Architecture beyond signs and symbols : Zumthor's response to the problems of aesthetics

#### General information

Publication status: Published  
MoE publication type: A1 Journal article-refereed  
Organisations: School of Architecture, Research group: History of Architecture  
Contributors: Passinmäki, P.  
Number of pages: 4  
Pages: 325-328  
Publication date: 12 May 2016  
Peer-reviewed: Yes

#### Publication information

Journal: ARQ-Architectural Research Quarterly  
Volume: 19  
Issue number: 4  
ISSN (Print): 1359-1355  
Ratings:  
Scopus rating (2016): CiteScore 0.2 SJR 0.127 SNIP 0.249  
Original language: English  
DOIs:  
10.1017/S1359135516000038  
Research output: Contribution to journal › Article › Scientific › peer-review

### Arkkitehtuurin monet mahdollisuudet

#### General information

Publication status: Published  
MoE publication type: D1 Article in a trade journal  
Organisations: School of Architecture, Research group: Urban Planning

Contributors: Chudoba, M.  
Number of pages: 4  
Pages: 6-9  
Publication date: May 2016  
Peer-reviewed: Unknown

#### Publication information

Journal: Arkkitehtiutiset  
Issue number: 5  
ISSN (Print): 0044-8915  
Original language: Finnish  
URLs:

[http://www.e-julkaisu.fi/SAFA/au\\_arkkitehtiutiset/5\\_2016/](http://www.e-julkaisu.fi/SAFA/au_arkkitehtiutiset/5_2016/) (Interview of architect Junya Ishigami)

Research output: Contribution to journal › Article › Professional

#### **Kaupunkikoti lapselle: ohjeita, kuinka kehittää asuntoja urbaanissa ympäristössä pienen lapsen näkökulmasta**

Migration to city centres is an increasing phenomena in Finland. One of the largest groups moving to live in cities, in addition to single persons and the elderly, are families with children. Work-related moving to cities is common, but families have also become interested in urban living. However the excess demand in the housing market does not meet the willingness of the families to move to city centres. The housing designs in the city centres also primarily focus on the requirements of adults and the needs of children have been left in the background. What kind of housing do the families with children in urban environment require and what are the details to be taken in the account from the perspective of children?

That is the question this thesis aims to answer. Research were collected to achieve an understanding of child development and requirements to create a basis for housing design from the perspective of children. The focus in on children under school age for whom home is one of the most important growth environments and greatly affects their development. Child-friendly housing designs for different concepts are considered based on the research. These concepts involve different types of families for which various floor plans are introduced in this study. The goal is to find child-friendly housing solutions and to give means on which to build on when developing apartments designed for families with small children.

#### General information

Publication status: Published  
MoE publication type: G2 Master's thesis, polytechnic Master's thesis  
Organisations: School of Architecture  
Contributors: Tuominen, I.  
Number of pages: 115  
Publication date: May 2016

#### Publication information

Publisher: Tampereen teknillinen yliopisto. Arkkitehtuurin laitos  
ISBN (Electronic): 978-952-15-3752-3  
Original language: Finnish

#### Publication series

Name: Tampereen teknillinen yliopisto. Arkkitehtuurin laitos. Asuntosuunnittelu. Julkaisu  
Volume: 25  
ISSN (Print): 2242-4598  
Keywords: children, housing design, apartment, housing  
Electronic versions:

Tuominen - Kaupunkikoti lapselle

URLs:

<http://urn.fi/URN:ISBN:978-952-15-3752-3>

Research output: Book/Report › Master's Thesis › Scientific

#### **Political, practical and architectural notion of the concept of the right to the city in neighbourhood regeneration**

Informed by Henry Lefebvre's concept of the right to the city, this article discusses the issues of neighbourhood regeneration in two Finnish suburban residential neighbourhoods. The selected neighbourhoods represent relatively poor suburban areas with a high percentage of ethnic minority populations. The intention is to disclose some of the problems and potentials for participatory planning and design practices in these areas – processes that could carry out the ideals of the right to the city in urban regeneration – and to suggest that for this purpose, an interdisciplinary understanding of the relevance of current population changes in urban environment is needed.

### General information

Publication status: Published  
MoE publication type: A1 Journal article-refereed  
Organisations: Architecture  
Contributors: Maununaho, K.  
Number of pages: 7  
Pages: 58-64  
Publication date: 6 Apr 2016  
Peer-reviewed: Yes

### Publication information

Journal: Nordic Journal of Migration Research  
Volume: 6  
Issue number: 1  
ISSN (Print): 1799-649X  
Original language: English  
Keywords: right to the city, urbanisation in Finland, urban regeneration, spatial differentiation, participatory planning and design  
DOIs:  
10.1515/njmr-2016-0008  
Research output: Contribution to journal › Article › Scientific › peer-review

### 1965: The Heart of Our Cities

Arkkitehti Victor Gruenia (1903–1980) pidetään modernin kauppakeskuksen konseptin kehittäjänä. Yhdysvaltojen ensimmäinen katettu kauppakeskus (enclosed mall), Southdale Center, rakennettiin Minneapolisiin Edinaan vuonna 1956. Gruen muistetaan parhaiten kauppakeskuksista, mutta hänen ansionsa kaupunkisuunnittelijana ja teoreetikkona jää usein vähemmälle huomiolle. Suunnittelukäsitykset nousevat kulloisenkin aikakauden haasteista ja käytettävissä olevasta tiedosta. Siksi on kiinnostavaa Gruenia lukiessa kysyä, onko suhtautuminen kaupunkien suunnitteluun kaikesta tiedollisesta kehityksestä huolimatta juurikaan muuttunut. Tässä klassikkoarviossa keskityn Gruenin kaupunkisuunnitteluteoriaan ja kysyn, mikä oli Gruenin ideoiden merkitys aikanaan ja millaisen perinnön ne ovat jättäneet jälkipolville.

### General information

Publication status: Published  
MoE publication type: B1 Article in a scientific magazine  
Organisations: School of Architecture  
Contributors: Rantanen, A.  
Publication date: 28 Mar 2016  
Peer-reviewed: No

### Publication information

Journal: Yhdyskuntasuunnittelu  
Volume: 2015:53  
Issue number: 4  
ISSN (Print): 1459-6806  
Original language: Finnish  
URLs:  
<http://www.yss.fi/journal/1965-the-heart-of-our-cities/>  
Research output: Contribution to journal › Article › Scientific

### Pirkanmaan maakuntakaava 2040: Ihmisten elinympäristöön kohdistuvien vaikutusten arviointi

### General information

Publication status: Published  
MoE publication type: D4 Published development or research report or study  
Organisations: School of Architecture, Research group: EDGE, University of Helsinki  
Contributors: Joutsiniemi, A., Vanhatalo, J., Vaattovaara, M., Lehtonen, J.  
Number of pages: 62  
Publication date: 11 Mar 2016

### Publication information

Place of publication: Tampere  
Publisher: Pirkanmaan liitto  
ISBN (Electronic): 978-951-590-336-5  
Original language: Finnish

Keywords: Planning, Assessment

Electronic versions:

Valmis\_raportti\_IEVA\_

URLs:

[http://maakuntakaava2040.pirkanmaa.fi/sites/default/files/Valmis\\_raportti\\_IEVA\\_\\_0.pdf](http://maakuntakaava2040.pirkanmaa.fi/sites/default/files/Valmis_raportti_IEVA__0.pdf)

<http://urn.fi/URN:NBN:fi:ty-201706091589>

Research output: Book/Report > Commissioned report > Professional

## **Hiedanrannan kehittämisvisio: Tiivis ja intensiivisesti vihreä Tampere City West**

### **General information**

Publication status: Published

MoE publication type: D5 Text book, professional manual or guide or a dictionary

Organisations: School of Architecture, Research group: Built Environment in Transition, Research group: Urban Planning

Theory, Department of Civil Engineering, Research group: Service Life Engineering of Structures, Department of

Chemistry and Bioengineering, Research group: Industrial Bioengineering and Applied Organic Chemistry

Contributors: Lehtovuori, P., Edelman, H., Rintala, J., Jokinen, A., Rantanen, A., Särkilahti, M., Joensuu, T.

Number of pages: 75

Publication date: 4 Mar 2016

### **Publication information**

Publisher: Tampereen teknillinen yliopisto. Arkkitehtuurin laitos

ISBN (Print): 978-952-15-3712-7

ISBN (Electronic): 978-952-15-3713-4

Original language: Finnish

### **Publication series**

Name: Tampereen teknillinen yliopisto. Arkkitehtuurin laitos. Julkaisu

Volume: 10

ISSN (Print): 1797-4143

Electronic versions:

Hiedanrannan kehittämisvisio

URLs:

<http://urn.fi/URN:ISBN:978-952-15-3713-4>

Research output: Book/Report > Book > Professional

## **Development vision for Hiedanranta: Densely-built and intensively green Tampere City West**

### **General information**

Publication status: Published

MoE publication type: D5 Text book, professional manual or guide or a dictionary

Organisations: School of Architecture, Research group: Built Environment in Transition, Research group: Urban Planning

Theory, Department of Civil Engineering, Research group: Service Life Engineering of Structures, Department of

Chemistry and Bioengineering, Research group: Industrial Bioengineering and Applied Organic Chemistry

Contributors: Lehtovuori, P., Edelman, H., Rintala, J., Jokinen, A., Rantanen, A., Särkilahti, M., Joensuu, T.

Number of pages: 76

Publication date: 2 Mar 2016

### **Publication information**

Publisher: Tampere University of Technology. School of Architecture

ISBN (Electronic): 978-952-15-3739-4

Original language: English

### **Publication series**

Name: Tampere University of Technology. School of Architecture. Publication

Volume: 11

ISSN (Print): 1797-4143

Electronic versions:

Development vision for Hiedanranta

URLs:

<http://urn.fi/URN:ISBN:978-952-15-3739-4>

Research output: Book/Report > Book > Professional

### **An Assessment of Errors and Their Reduction in Terrestrial Laser Scanner Measurements in Marmorean Surfaces**

The need for accurate documentation for the preservation of cultural heritage has prompted the use of terrestrial laser scanner (TLS) in this discipline. Its study in the heritage context has been focused on opaque surfaces with lambertian reflectance, while translucent and anisotropic materials remain a major challenge. The use of TLS for the mentioned materials is subject to significant distortion in measure due to the optical properties under the laser stimulation. The distortion makes the measurement by range not suitable for digital modelling in a wide range of cases. The purpose of this paper is to illustrate and discuss the deficiencies and their resulting errors in marmorean surfaces documentation using TLS based on time-of-flight and phase-shift. Also proposed in this paper is the reduction of error in depth measurement by adjustment of the incidence laser beam. The analysis is conducted by controlled experiments.

#### **General information**

Publication status: Published  
MoE publication type: A1 Journal article-refereed  
Organisations: School of Architecture  
Contributors: Garcia-Fernandez, J.  
Number of pages: 11  
Pages: 1-11  
Publication date: 1 Mar 2016  
Peer-reviewed: Yes

#### **Publication information**

Journal: 3D Research  
Volume: 7  
Issue number: 1  
Article number: 2  
ISSN (Print): 2092-6731  
Ratings:  
Scopus rating (2016): CiteScore 1.3 SJR 0.166 SNIP 0.425  
Original language: English  
ASJC Scopus subject areas: Electrical and Electronic Engineering, Software  
Keywords: Comparison, Experimental, Laser scanning, Marble, Measurement, Translucency  
DOIs:  
10.1007/s13319-015-0077-0  
Source: Scopus  
Source ID: 84955495304  
Research output: Contribution to journal › Article › Scientific › peer-review

### **Talopaletti: Ratkaisumalleja urbaaniin pientaloasumiseen**

#### **General information**

Publication status: Published  
MoE publication type: D5 Text book, professional manual or guide or a dictionary  
Organisations: School of Architecture, Research group: ASUTUT  
Contributors: Hedman, M., Heino, J., Tarpio, J., Teronen, T.  
Number of pages: 263  
Publication date: 29 Feb 2016

#### **Publication information**

Publisher: Tampereen teknillinen yliopisto. Arkkitehtuurin laitos  
ISBN (Print): 978-952-15-3696-0  
ISBN (Electronic): 978-952-15-3697-7  
Original language: Finnish

#### **Publication series**

Name: Tampereen teknillinen yliopisto. Arkkitehtuurin laitos. Asuntosuunnittelu. Julkaisu  
Publisher: Tampereen teknillinen yliopisto. Arkkitehtuurin laitos  
Volume: 24  
ISSN (Print): 2242-4598  
Electronic versions:  
talopaletti\_pdf  
URLs:  
<http://urn.fi/URN:ISBN:978-952-15-3697-7>  
Research output: Book/Report › Book › Professional



## **Quantitative + qualitative information for heritage conservation: An open science research for paving 'collaboratively' the way to historical-BIM**

Insofar as our cultural heritage (CH) has become not only an economic resource but a key element in defining our identity, its accurate and flexible documentation has emerged as an essential task. The generation of 3D information with physical and functional characteristics is now possible through the connection of survey data with Historical Building Information Modeling (HBIM). However, few studies have focused on the semantic enrichment process of models based on point clouds, especially on the field of cultural heritage. These singularities make the conversion of point cloud to 'as-built' HBIM an expensive process from the mathematical and computational viewpoint. At present, there is no software that guarantees automatic and efficient data conversion in architectural or urban contexts. The ongoing research 'Documenting and Visualizing Industrial Heritage' is conducted by the School of Architecture, Tampere University of Technology, Finland based on an Open Notebook Research Model. It is focused on advance the knowledge of digital operating environments for the representation and management of historical buildings and sites. On the one hand, the research is advancing in three-dimensional 'as-built' modeling based on remote sensing data, while on the other hand is aiming to incorporate more qualitative information based on concepts of production and management in the lifecycle of the built environment. The purpose of this presentation is to discuss the different approaches to date on the HBIM generation chain: from 3D point cloud data collection to semantically enriched parametric models.

### **General information**

Publication status: Published

MoE publication type: A4 Article in a conference publication

Organisations: School of Architecture, Research group: EDGE, Michigan Technological University, University of Valladolid

Contributors: Garcia-Fernandez, J., Joutsiniemi, A., Ahn, Y., Fernandez, J. J.

Number of pages: 2

Pages: 207-208

Publication date: 24 Feb 2016

### **Host publication information**

Title of host publication: 2015 Digital Heritage International Congress, Digital Heritage 2015

Publisher: IEEE

ISBN (Print): 9781509000487

ASJC Scopus subject areas: Computer Graphics and Computer-Aided Design, Computer Science Applications, Information Systems, Archaeology, Cultural Studies

Keywords: BIM, Conservation, HBIM, Heritage, Open Science, Remote Sensing

DOIs:

10.1109/DigitalHeritage.2015.7419495

Source: Scopus

Source ID: 84965156312

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

## **Muutosmallit**

### **General information**

Publication status: Published

MoE publication type: B2 Part of a book or another research book

Organisations: School of Architecture, Research group: Built Environment in Transition

Contributors: Huuhka, S.

Number of pages: 6

Pages: 32-37

Publication date: 1 Feb 2016

### **Host publication information**

Title of host publication: Tutkitusti parempi lähiö : Asuinalueiden kehittämissuunnitelman tutkimusjulkaisu

Place of publication: Helsinki

Publisher: Asumisen rahoittamis- ja kehittämiskeskus (ARA)

Article number: 6

ISBN (Print): 978-952-11-4549-0

ISBN (Electronic): 978-952-11-4550-6

URLs:

<http://hdl.handle.net/10138/159846>

Research output: Chapter in Book/Report/Conference proceeding › Chapter › Scientific

## Uudet talot puntarissa

### General information

Publication status: Published  
MoE publication type: E1 Popularised article, newspaper article  
Organisations: School of Architecture  
Contributors: Kiuru, T., Tarpio, J., Lommi, J.  
Number of pages: 8  
Pages: 54-61  
Publication date: Feb 2016  
Peer-reviewed: Unknown

### Publication information

Journal: Meidän talo  
Volume: 2016  
Issue number: 2  
ISSN (Print): 1455-2825  
Original language: Finnish  
Research output: Contribution to journal › Article › General public

## Kokonaisvaltainen kehittämistyökalu arvoympäristön suojeluun: Arkkitehtuurialan väitös Tampereen teknillisessä yliopistossa 8.1.2016.

Description of Anca Dumitrescu's dissertation on managing historical urban environments.

### General information

Publication status: Published  
MoE publication type: E1 Popularised article, newspaper article  
Organisations: School of Architecture, Research group: Urban Planning  
Contributors: Chudoba, M.  
Publication date: 19 Jan 2016  
Peer-reviewed: Unknown

### Publication information

Journal: Archinfo - Arkkitehtuurin tiedotuskeskus  
Original language: Finnish  
URLs:  
<http://archinfo.fi/2016/01/kokonaisvaltainen-kehittamistyokalu-arvoymparistojen-suojeluun/>  
Research output: Contribution to journal › Article › General public

## The Management of Change in Finland's Wooden Historic Urban Landscapes: Old Rauma

The present research elaborates the Architectural and Urban perspective on the multidisciplinary approach of the Historic Urban Landscapes, in the Fennoscandian cultural context.

The main purpose of the present study is to define and to clarify how to limit and control change in the wooden historic urban landscapes found in a specific cultural region: Finland. Managing change in the context of the thesis gathers a wide area of possible attitudes in relation to historic urban areas, including: non-intervention, intervention by conservation, development, protection, demolition or re-building. In order to adequately answer the question, one must clarify what 'change', 'historic urban landscape' and 'wooden [town]' imply, as well as a number of other underlying concepts.

The main focus of the study is Old Rauma – a World Heritage site since 1991, viewed in a larger context: the cultural region of the Fennoscandia. Therefore, special attention is given to UNESCO wooden urban heritage, as it represents the most valuable and, at the same time, vulnerable and delicate form of historic urban landscape discussed and managed in contemporary practice. The role and impact of the recognition of World Heritage Sites is considered mainly through the comparative analysis of similar sites in the Nordic Countries. The narrower cultural context of Old Rauma is analysed through study cases of other historic urban areas of Finland. Defining a way to deal with change in wooden historic urban areas considered from the historic urban landscape perspective in the Nordic cultural context is one of the goals of this research, starting with the particularities and valued traits of these sites. In order to achieve a broader view on the phenomenon of the wooden historic urban landscape, the considered study cases are both World Heritage Sites as well as Finnish historic towns bearing enough similarities to be analysed in the same category.

The validity of the proposed tool: the Aggregated Management Plan for Finnish historic urban areas considering the historic urban landscape approach is supported by case studies and the elaboration of the plan for Old Rauma.

### General information

Publication status: Published

MoE publication type: G4 Doctoral dissertation (monograph)  
Organisations: School of Architecture  
Contributors: Dumitrescu, A.  
Number of pages: 275  
Publication date: 8 Jan 2016

#### **Publication information**

Publisher: Tampere University of Technology  
ISBN (Print): 978-952-15-3650-2  
ISBN (Electronic): 978-952-15-3675-5  
Original language: English

#### **Publication series**

Name: Tampere University of Technology. Publication  
Publisher: Tampere University of Technology  
Volume: 1357  
ISSN (Print): 1459-2045  
Electronic versions:  
dumitrescu\_1357  
URLs:  
<http://URN.fi/URN:ISBN:978-952-15-3675-5>

#### **Bibliographical note**

Awarding institution: Tampere University of Technology  
dumitrescu\_1375 ok 8.1.2016 KK  
Research output: Book/Report › Doctoral thesis › Monograph

### **Aalto Bibliothek in Seinäjoki: Feinfühlige Restaurierung der Moderne**

#### **General information**

Publication status: Published  
MoE publication type: D1 Article in a trade journal  
Organisations: Architecture  
Contributors: Koponen, O.  
Publication date: 2016  
Peer-reviewed: Unknown

#### **Publication information**

Journal: Alvar Aalto Gesellschaft  
Issue number: Bulletin 39  
Original language: German  
URLs:  
<http://alvar-aalto-gesellschaft.eu/de/ueberuns/archiv/archivbulletins/>  
Research output: Contribution to journal › Article › Professional

### **Aalto-kirjasto, Seinäjoki**

#### **General information**

Publication status: Published  
MoE publication type: D1 Article in a trade journal  
Organisations: Architecture  
Contributors: Koponen, O.  
Publication date: 2016  
Peer-reviewed: Unknown

#### **Publication information**

Journal: Arkkitehti  
Issue number: 1  
ISSN (Print): 0783-3660  
Original language: Finnish  
Research output: Contribution to journal › Article › Professional

### **Alvar Aalto and the industrial origins of Finnish 1940s community planning**

In Finland the construction of post-war neighbourhoods started in 1950, but its ideological background was in the planning of the 1940s. As has been shown, the principles of Anglo-American neighbourhood unit planning and regional planning influence the structural principles that were adopted for neighbourhood units. This paper presents another narrative for the period by analysing the work of the architect Alvar Aalto, who was a pioneer of Finnish regional planning and was significantly active in community planning. After having established good relations with Finnish industry, he got the chance to develop his own community planning principles. They became close to the principles of neighbourhood unit planning but, at the same time, were personal and extended beyond them. This paper examines in closer detail three of Aalto's plans and the way he combined planning and building design. In this way it is possible to better understand the ideas of the 1940s and the importance of Finnish industry during this time. Aalto's activity during the 1940s also explains his success in later decades.

#### **General information**

Publication status: Published

MoE publication type: A1 Journal article-refereed

Organisations: Architecture, Research group: Urban Planning and Design

Contributors: Norvasuo, M.

Pages: 227-251

Publication date: 2016

Peer-reviewed: Yes

#### **Publication information**

Journal: Planning Perspectives

Volume: 31

Issue number: 2

ISSN (Print): 0266-5433

Ratings:

Scopus rating (2016): CiteScore 1.1 SJR 0.487 SNIP 1.601

Original language: English

Electronic versions:

Norvasuo 2016 accepted manuscript

DOIs:

10.1080/02665433.2015.1065756

URLs:

<http://urn.fi/URN:NBN:fi:tuni-202003032471>

Research output: Contribution to journal > Article > Scientific > peer-review

### **Asemanseudut ja osaamisvetoisen kaupunkikehittämisen kolmas aalto**

#### **General information**

Publication status: Published

MoE publication type: A1 Journal article-refereed

Organisations: School of Architecture, Research group: Urban Laboratory, University of Tampere

Contributors: Hynynen, A., Kolehmainen, J.

Publication date: 2016

Peer-reviewed: Yes

#### **Publication information**

Journal: Yhdyskuntasuunnittelu

Volume: 54

Issue number: 4

ISSN (Print): 1459-6806

Original language: Finnish

URLs:

<http://www.yss.fi/journal/aseanseudut-ja-osaamisvetoisen-kaupunkikehittamisen-kolmas-aalto/>

Research output: Contribution to journal > Article > Scientific > peer-review

### **Asemanseutujen kehittämiskonseptit ja investointimallit: Esiselvitys**

#### **General information**

Publication status: Published

MoE publication type: D4 Published development or research report or study

Organisations: School of Architecture, Research group: Urban Laboratory

Contributors: Harvio, S., Lehto, V., Hynynen, A., Kolehmainen, J., Laakso, S., Matikka, J.

Number of pages: 61  
Publication date: 2016

#### **Publication information**

Place of publication: Helsinki  
Publisher: Ympäristöministeriö  
Volume: 27  
ISBN (Electronic): 978-952-11-4631-2  
Original language: Finnish

#### **Publication series**

Name: Ympäristöministeriön raportteja 27  
ISSN (Electronic): 1796-170X  
URLs:  
[https://www.hsy.fi/fi/asiantuntijalle/ilmastonmuutos/hankkeet/asemanseudut/Documents/Loppuraportti\\_elias\\_TP5\\_080416.pdf](https://www.hsy.fi/fi/asiantuntijalle/ilmastonmuutos/hankkeet/asemanseudut/Documents/Loppuraportti_elias_TP5_080416.pdf)  
Research output: Book/Report › Commissioned report › Professional

#### **Asemanseutujen momentum**

##### **General information**

Publication status: Published  
MoE publication type: D1 Article in a trade journal  
Organisations: School of Architecture, Research group: Urban Laboratory  
Contributors: Hynynen, A.  
Number of pages: 2  
Pages: 22-23  
Publication date: 2016  
Peer-reviewed: Unknown

##### **Publication information**

Journal: Arkkitehtiutiset  
Volume: 2016  
Issue number: 4  
ISSN (Print): 0044-8915  
Original language: Finnish  
URLs:  
[http://www.e-julkaisu.fi/SAFA/au\\_arkkitehtiutiset/4\\_2016/](http://www.e-julkaisu.fi/SAFA/au_arkkitehtiutiset/4_2016/)  
Research output: Contribution to journal › Comment/debate › Professional

#### **Complex patterns of self-organized neighbourhoods**

Complexity theory has increased our understanding of cities as dynamic, self-organizing systems. However, the planning practice of today often collides with the complex urban realm, and is incapable of steering or even recognizing self-organization. Since many self-organization mechanisms may actually be indispensable to the city, we need a better understanding of them to develop appropriate planning tools. In this paper the complex nature of self-organization in the industrial district of Nekala in the Finnish city of Tampere is studied using isovist analyses for statistical observation to confirm the inner diversity of the spontaneously evolving phenomenon. The conclusion section includes some remarks on accommodating self-organization principles in planning.

##### **General information**

Publication status: Published  
MoE publication type: A3 Part of a book or another research book  
Organisations: School of Architecture, Research group: Urban Planning Theory, Research group: EDGE  
Contributors: Partanen, J., Joutsiniemi, A.  
Number of pages: 16  
Pages: 242-257  
Publication date: 2016

##### **Host publication information**

Title of host publication: Spatial Planning in a Complex Unpredictable World of Change : Towards a proactive co-evolutionary type of planning  
Place of publication: Groningen  
Publisher: InPlanning  
Editors: Boelens, L., deRoo, G.

ISBN (Print): 978-94-91937-26-2

ISBN (Electronic): 978-94-91937-27-9

Keywords: self-organization, complexity, urban processes, urban planning, Urban evolution

DOIs:

10.17418/B.2016.9789491937279

Research output: Chapter in Book/Report/Conference proceeding › Chapter › Scientific › peer-review

## Defining requirements for appreciation of patina

### General information

Publication status: Published

MoE publication type: A4 Article in a conference publication

Organisations: Architecture

Contributors: Kalakoski, I.

Number of pages: 14

Pages: 27-40

Publication date: 2016

### Host publication information

Title of host publication: Aesthetics - the uneasy dimension in architecture

Volume: 2016-1

Place of publication: Trondheim

Publisher: Nordisk Arkitekturforskning

Editors: Toft, A. E., Rönn, M.

Edition: Proceedings Series

ISBN (Electronic): 978-91-983797-0-9

### Publication series

Name: Proceedings Series

Publisher: Nordisk Arkitekturforskning

Volume: 2016-1

URLs:

<http://arkitekturforskning.net/files/journals/1/issues/89/89-1-PB.pdf>

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

## Etelä-Pohjanmaan aluerakenteen tulevaisuuskuvat 2040

### General information

Publication status: Published

MoE publication type: D4 Published development or research report or study

Organisations: School of Architecture, Research group: Urban Laboratory

Contributors: Kurikka, H., Alarinta, J., Kolehmainen, J., Hynynen, A.

Number of pages: 36

Publication date: 2016

### Publication information

Publisher: Seinäjoen yliopistokeskus ja Etelä-Pohjanmaan liitto

ISBN (Print): 978-951-766-309-0

ISBN (Electronic): 978-951-766-310-6

Original language: Finnish

### Publication series

Name: Julkaisunumero B:81

Publisher: Etelä-Pohjanmaan liitto

ISSN (Electronic): 1239-0607

URLs:

[http://www.epliitto.fi/images/B\\_81\\_Etela-Pohjanmaan\\_aluerakenteen\\_tulevaisuuskuvat\\_2040.pdf](http://www.epliitto.fi/images/B_81_Etela-Pohjanmaan_aluerakenteen_tulevaisuuskuvat_2040.pdf)

Research output: Book/Report › Commissioned report › Professional

## Extending Professional Fields. Architectural Research and Regional Development

In this article, architectural research work is studied as an effective operations model in regional innovation networks of building clusters. The study focuses on the projects of an academic research team working at the University Centre of Seinäjoki, as well as on the innovation environment of the surrounding South Ostrobothnian region in Western Finland. There is no actual university in the region, but the University Centre hosts some twenty professors and their research

teams from six Finnish universities. The head of the subject team is also the author of this article. Because of this, the method applied in the article is a reflective action research approach.

The actions and impacts of the research work will be analysed through three case projects. The first case is the development of the large railway station area that will form a new 20-hectare multifunctional part of the city centre of Seinäjoki. The project has strong linkages to the economic policies of the city. The second case is related to the boom in new timber construction, which has been going on in Central Europe and Scandinavia for some time, but not so strongly in the subject region of this study. The aim of the project was to train small and medium-sized building cluster firms to take advantage of the emerging business potential in timber construction. The third case is closely related to the real speciality of the region. The city of Seinäjoki is home to one of the most complete building groups of architect Alvar Aalto, the famous civic centre that consists of the town hall, library, theatre, office building, church and the parish centre. At the moment there is a very demanding renovation project going on, which was also the main subject of the recent research and development project.

The descriptions of the projects are meant to illustrate the operational field of the research team, but the main focus of the article is to analyse the innovation environment that the researchers join as players among others, thus deviating from the more conventional role of architectural professionals.

### General information

Publication status: Published

MoE publication type: A4 Article in a conference publication

Organisations: School of Architecture, Research group: Urban Laboratory

Contributors: Hynynen, A.

Number of pages: 12

Pages: 372-383

Publication date: 2016

### Host publication information

Title of host publication: Proceedings of the CIB World Building Congress 2016. : Volume I - Creating built environments of new opportunities

Volume: I

Publisher: Tampere University of Technology. Department of Civil Engineering

Editors: Kähkönen, K., Keinänen, M.

ISBN (Print): 978-952-15-3741-7

URLs:

[https://tutcris.tut.fi/portal/files/6186667/WBC16\\_Vol\\_1.pdf](https://tutcris.tut.fi/portal/files/6186667/WBC16_Vol_1.pdf)

URLs:

<http://www.wbc16.com/wbc16/welcome.html>

Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific > peer-review

### Future in wood? Timber construction in boosting local development.

Large scale timber construction has been on the upswing for some time in many European countries. Besides the building cluster, also regions and cities have taken advantage of the ongoing timber boom in their economic and spatial development. In this article the focus is on the South Ostrobothnia region and the city of Seinäjoki in Western Finland, where the potential of the business is quite weakly exploited regardless of favourable preconditions. By studying the key actors of the innovation network we are able to better understand the premises of the local development platform that should aim at boosting timber construction.

### General information

Publication status: Published

MoE publication type: A2 Review article in a scientific journal

Organisations: School of Architecture, Research group: Urban Laboratory

Contributors: Hynynen, A.

Number of pages: 13

Pages: 127-139

Publication date: 2016

Peer-reviewed: Yes

### Publication information

Journal: European Spatial Research and Policy

Volume: 23

Issue number: 1

ISSN (Print): 1231-1952

Ratings:

Scopus rating (2016): CiteScore 0.5 SJR 0.152 SNIP 0.378

Original language: English

Keywords: Urban development, regional development, timber construction, innovation network, development platform  
DOIs:

10.1515/esrp-2016-0007

Research output: Contribution to journal › Review Article › Scientific › peer-review

### **Homogenous homes of Finland: 'Standard' flats in non-standardized blocks**

Several authors have successfully created and employed vintage cohorts and housing typologies in research addressing energy renovation needs in the existing dwelling stock. This paper suggests that the idea of types would be useful in creating living quality-related renovation and adaptation concepts for homes. These concepts could be used for increasing the accessibility and individuality of flats and easing life in cramped conditions by means of design. Therefore, the study tests the approach by examining the plan design of flats in one cohort: the Finnish 1960–80s' dwelling stock. A total of 320 apartment blocks with 8745 flats in 51 cities are examined. The study identifies 18 different types of flats, which are based on 10 basic layouts, representing over 80% of all flats. Although the housing production of this era was characterized by cost-efficiency and industrialized prefabrication technologies, the result can be deemed somewhat surprising. This is because the building layouts were never standardized in Finland: only the production technology was standardized. The identified flat types are estimated to cover as much as one-third of all existing Finnish flats. These findings provide future opportunities for creating new mass-tailored renovation concepts.

#### **General information**

Publication status: Published

MoE publication type: A1 Journal article-refereed

Organisations: Research group: Built Environment in Transition, Research group: ASUTUT, School of Architecture,

Research group: Built Environment in Transition

Contributors: Kaasalainen, T., Huuhka, S.

Number of pages: 19

Pages: 229-247

Publication date: 2016

Peer-reviewed: Yes

Early online date: 25 Jun 2015

#### **Publication information**

Journal: Building Research and Information

Volume: 44

Issue number: 3

ISSN (Print): 0961-3218

Ratings:

Scopus rating (2016): CiteScore 5.1 SJR 1.335 SNIP 1.586

Original language: English

Keywords: apartment buildings, archetypes, building research, building stock, flats, housing stock, internal space, typology , vintage cohorts, Finland

Electronic versions:

Kaasalainen & Huuhka - Homogeneous homes of Finland Accepted Manuscript. Embargo ended: 25/06/16

DOIs:

10.1080/09613218.2015.1055168

URLs:

<http://urn.fi/URN:NBN:fi:ty-201606304320>

Research output: Contribution to journal › Article › Scientific › peer-review

**Jotain uutta, jotain lainattua – ja hieman keltaista. Satakunnankatu 21.**

#### **General information**

Publication status: Published

MoE publication type: D1 Article in a trade journal

Organisations: Architecture, Research group: ASUTUT

Contributors: Helamaa, A.

Pages: 39-40

Publication date: 2016

Peer-reviewed: Unknown

#### **Publication information**

Journal: Arkkitehti

Issue number: 5

ISSN (Print): 0783-3660



Original language: Finnish  
Research output: Contribution to journal › Article › Professional

### **Kaupunkitutkimuksen uusi aalto**

#### **General information**

Publication status: Published  
MoE publication type: D1 Article in a trade journal  
Organisations: Architecture, Research group: Urban Planning Theory, Research group: Urban Planning and Design  
Contributors: Lehtovuori, P.  
Number of pages: 2  
Pages: 30-31  
Publication date: 2016  
Peer-reviewed: Unknown

#### **Publication information**

Journal: Arkkitehtiutiset  
Issue number: 8  
ISSN (Print): 0044-8915  
Original language: Finnish  
URLs:  
[http://www.e-julkaisu.fi/SAFA/au\\_arkkitehtiutiset/8\\_2016/](http://www.e-julkaisu.fi/SAFA/au_arkkitehtiutiset/8_2016/)  
Research output: Contribution to journal › Article › Professional

### **Klingendahlin parveke, opiskelijakilpailu 2015**

#### **General information**

Publication status: Published  
MoE publication type: D6 Edited professional books  
Organisations: Architecture, Research group: Built Environment in Transition  
Contributors: Karjalainen, M. (ed.), Pesonen, M. (ed.)  
Number of pages: 73  
Publication date: 2016

#### **Publication information**

Place of publication: Tampere  
Publisher: Tampereen teknillinen yliopisto. Arkkitehtuurin laitos. Rakennusoppi  
ISBN (Print): 978-952-154-3849-0  
Original language: Finnish  
Research output: Book/Report › Anthology › Professional

### **Lempäälän Sääksjärvi: Yhdyskuntasuunnittelun ammattikurssi 1 2016**

#### **General information**

Publication status: Published  
MoE publication type: D4 Published development or research report or study  
Organisations: School of Architecture, Research group: Urban Planning  
Contributors: Rajaniemi, J. (ed.), Chudoba, M. (ed.)  
Number of pages: 115  
Publication date: 2016

#### **Publication information**

Place of publication: Tampere  
Publisher: Tampere University of Technology, School of Architecture  
ISBN (Print): 978-952-15-3724-0  
ISBN (Electronic): 978-952-15-3725-7  
Original language: Finnish  
Electronic versions:  
Kurssijulkaisu\_pdf  
URLs:  
<http://urn.fi/URN:ISBN:978-952-15-3725-7>  
Research output: Book/Report › Commissioned report › Professional

### **Liquid Planning, Wiki-Design - Learning from the Case Pispala**

As the key aspects of theories of complex systems have been established, the premises for academic research on planning and on planning praxis still necessitates the development of novel planning tools and approaches to address inevitable urban self-organizing transformations. We have accepted that cities emerge from bottom up. However, planning methods simulating this emergence are still limited. Progress has been made in recent decades and many systemic, evolutionary, and computing based planning approaches have been proposed. The work here builds on these premises. In network theoretical, computational, and democracy discourses, proxy or liquid approaches have been proposed to have potential for genuinely democratic forms of decision-making. More importantly they provide a method for information organization from bottom up in a digital platform. This process actually follows the very principles of self-organization of information in information or cognitive sciences: entropy decreases as the "bits" of information are self-organizing into coherent classes. These principles could be applied in bottom up planning approach as well. For this purpose, and to bring this discourse closer to the planning realm, I compered here the conceptualized structures of Liquid Democracy, SIRN cognitive model and prior self-organizing planning proposals to a bottom up planning experiment in Pispala neighborhood, Tampere, Finland. I evaluated its capacity for self-organization of information and hypothesized the case provides a frame for a new self-organizing planning method. Based on this evaluation a structure for a digitalized Liquid Planning procedure is suggested and discussed.

#### **General information**

Publication status: Published

MoE publication type: A1 Journal article-refereed

Organisations: School of Architecture, Research group: Urban Planning Theory

Contributors: Partanen, J.

Pages: 997-1018

Publication date: 2016

Peer-reviewed: Yes

#### **Publication information**

Journal: Environment & Planning B: Planning and Design

Volume: 43

Issue number: 6

ISSN (Print): 0265-8135

Ratings:

Scopus rating (2016): CiteScore 2.8 SJR 0.704 SNIP 1.008

Original language: English

DOIs:

10.1177/0265813516647965

Research output: [Contribution to journal](#) › [Article](#) › [Scientific](#) › [peer-review](#)

### **Multi-story timber frame buildings in Finland -videopresentation**

#### **General information**

Publication status: Published

Organisations: Architecture, Research group: Built Environment in Transition

Contributors: Karjalainen, M.

Publication date: 2016

Peer-reviewed: Unknown

Event: Paper presented at International Conference on Sustainable Civil Engineering, Cape Town, South Africa.

Research output: [Other conference contribution](#) › [Paper, poster or abstract](#) › [Professional](#)

### **Nuorisokeskus Marttisen sauna, opiskelijakilpailu 2015**

#### **General information**

Publication status: Published

MoE publication type: D6 Edited professional books

Organisations: Architecture, Research group: Built Environment in Transition

Contributors: Karjalainen, M. (ed.), Pesonen, M. (ed.)

Number of pages: 53

Publication date: 2016

#### **Publication information**

Place of publication: Tampere

Publisher: Tampereen teknillinen yliopisto. Arkkitehtuurin laitos. Rakennusoppi

ISBN (Print): 978-952-15-3847-6

Original language: Finnish  
Research output: Book/Report › Anthology › Professional

### **Rääkkylän mummola, Opiskelijakilpailu 2016**

#### **General information**

Publication status: Published  
MoE publication type: D6 Edited professional books  
Organisations: Architecture, Research group: Built Environment in Transition  
Contributors: Karjalainen, M. (ed.), Pesonen, M. (ed.)  
Number of pages: 43  
Publication date: 2016

#### **Publication information**

Place of publication: Tampere  
Publisher: Tampereen teknillinen yliopisto. Arkkitehtuurin laitos. Rakennusoppi  
ISBN (Print): 978-952-15-3848-3  
Original language: Finnish  
Research output: Book/Report › Anthology › Professional

### **Suomen arkkitehtuurikatsaus 2016**

#### **General information**

Publication status: Published  
MoE publication type: F1 Published independent work of art  
Organisations: Architecture, Research group: Architecture: History and Theory  
Contributors: Lahdelma, I.  
Publication date: 2016  
Research output: Artistic and non-textual form › Exhibition › Solo art production

### **Synthetic modelling of pedestrian movement tallinn case study report**

This paper builds towards the argument that pedestrian traffic in the city can be successfully simulated with agent-based computational models if pedestrians' movement patterns are appropriately studied first. Furthermore, such simulation models, when finely calibrated and supported by onsite observations, allow planners to evaluate different urban design scenarios. We present a pilot study carried out in the centre of Tallinn, and discuss a way of how pedestrian movement simulations can be conceived. In the pilot study we recorded some 120 traces of pedestrians' movement and developed a prototype of an agent-based computational model to simulate this movement. Additionally we investigated the possibility of including solar analysis into the computational model. Already this short exercise offered us some interesting insights into how certain spatial qualities and features can drive pedestrian traffic making urban walkers to verge off the shortest routes. The pilot study was carried out in the context of the High Street project for turning the centre of Tallinn into more pedestrian friendly area by redesigning urban space, calming vehicular traffic and creating new opportunities for businesses to flourish.

#### **General information**

Publication status: Published  
MoE publication type: B3 Non-refereed article in conference proceedings  
Organisations: Estonian Academy of Arts  
Contributors: Puusepp, R., Cerrone, D., Melioranski, M.  
Publication date: 2016

#### **Host publication information**

Title of host publication: 34th eCAADe Conference : 22-26 August 2016, Oulu  
Volume: 2

#### **Publication series**

Name: Urban Contex  
Publisher: eCAADe  
No.: 34  
Keywords: Pedestrian Navigation, urban form, urban morphology, spatial analysis, Urban models, Urban modelling

#### **Bibliographical note**

EXT="Cerrone, Damiano"  
Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific

## Vitality Through Integrative Urban Design: The case of Three Finnish cities

### General information

Publication status: Published  
MoE publication type: A3 Part of a book or another research book  
Organisations: School of Architecture, Research group: Urban Laboratory  
Contributors: Hynynen, A.  
Number of pages: 23  
Pages: 182-204  
Publication date: 2016

### Host publication information

Title of host publication: RE-CITY. Future City - Combining Disciplines  
Place of publication: Tampere  
Publisher: Tampere University of Technology. School of Architecture  
Editor: Rajaniemi, J.  
ISBN (Print): 978-952-15-3624-3  
ISBN (Electronic): 978-952-15-3625-0

### Publication series

Name: DATUTOP  
Publisher: Tampere University of Technology, School of Architecture  
Volume: 34  
ISSN (Print): 0359-7105  
URLs:  
<http://urn.fi/urn:isbn:978-952-15-3625-0>

### Bibliographical note

JUFOID=54540  
Research output: Chapter in Book/Report/Conference proceeding > Chapter > Scientific > peer-review

## DIMENSIO – NYT Keski-Suomen museo. (taidenäyttely)

### General information

Publication status: Published  
MoE publication type: F1 Published independent work of art  
Organisations: School of Architecture, Research group: Architecture: History, Theory and Innovations  
Contributors: Soini, K.  
Publication date: 5 Dec 2015  
Media of output: Other  
Research output: Artistic and non-textual form > Exhibition > Solo art production > peer-review

## Uudessa COMBI-hankkeessa tutkitaan energiatehokkaan palvelurakentamisen haasteita ja ratkaisuja

### General information

Publication status: Published  
MoE publication type: B3 Non-refereed article in conference proceedings  
Organisations: Department of Civil Engineering, Research group: Building Physics, School of Architecture, Research group: ASUTUT, Research area: Structural Engineering, Research group: Capacity Development of Water and Environmental Services CADWES, Research group: Real estate development, Research group: Service Life Engineering of Structures, Aalto University, Tampere University of Applied Sciences TAMK  
Contributors: Vinha, J., Hedman, M., Sirén, K., Harsia, P., Pentti, M., Teriö, O., Heljo, J., Laukkarinen, A., Annala, P., Kaasalainen, H., Jokisalo, J., Pihlajamaa, P.  
Number of pages: 10  
Pages: 487-496  
Publication date: 20 Oct 2015

### Host publication information

Title of host publication: Rakennusfysiikka 2015. Uusimmat tutkimustulokset ja hyvät käytännön ratkaisut. 20.-22.10.2015, Tampere.  
Publisher: Tampereen teknillinen yliopisto, rakennustekniikan laitos, rakennetekniikka  
Editors: Vinha, J., Ruuska, T.  
ISBN (Print): 978-952-15-3580-2

### Publication series

Name: Rakennustekniikan laitoksen Rakennetekniikka. Seminaarijulkaisu

No.: 4

ASJC Scopus subject areas: Civil and Structural Engineering, Building and Construction

URLs:

<http://www.tut.fi/cs/groups/public/@I912/@web/@p/documents/liit/x124266.pdf>

### Bibliographical note

ORG=rak,0.8

ORG=ark,0.2

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific

### Potential and Barriers for Reusing Load-Bearing Building Components in Finland

The European Waste Framework Directive, as set forth by the European Union in 2008, introduced a waste hierarchy that prioritizes reuse of waste over recycling whenever technically feasible and financially possible. In the field of construction, life cycle analyses on different materials have shown that reuse of structures possesses a remarkable carbon saving potential. This is the main asset that reuse has over virgin and recycled materials, although many other opportunities have also been recognized. Nevertheless, reuse has not gained ground in Western industrialized societies such as Finland. The barriers hindering reuse have been documented in the literature and they include cost, quality, quantity, perception and trust, among others.

In this study, a panel of experts working within construction and recycling industries, research and administration was surveyed about the reuse potential of prefabricated load-bearing components made of different materials in the Finnish context. In addition, the panellists were requested to identify the main barriers obstructing the reuse of the aforementioned components. The materials include concrete, steel and timber, which cover the majority of contemporary construction in Finland. The respondents evaluated that prefabricated steel has the highest reuse potential and concrete the lowest. The future potential of timber was seen as nearly equal to the potential of steel. In general, columns and beams were estimated to have better reuse potential than floor slabs and roof trusses. The potential of sandwich panels was evaluated to be the lowest.

The survey answers point out a number of issues that need addressing in order to enable reuse of components in large scale and in industrial construction. These results may not only have implications for recycling but for the technologies used in new construction as well. Especially prefabricated concrete was seen to be burdened by not being designed for deconstruction. However, it is the lack of an established practice that seems to be the main barrier for reusing steel and concrete. Technological constraints and physical properties may nonetheless delimit the utilization of some components. As for timber, its nature as a biodegradable material seems to form the main handicap for reuse, restraining the demand. Remarkably, cost of reuse was not seen to be among the most significant barriers, unlike other studies suggest.

### General information

Publication status: Published

MoE publication type: A1 Journal article-refereed

Organisations: Life Cycle Effectiveness of the Built Environment (LCE@BE), School of Architecture, Research group: Built Environment in Transition

Contributors: Huuhka, S., Hakanen, J.

Number of pages: 10

Pages: 215-224

Publication date: 23 Sep 2015

Peer-reviewed: Yes

### Publication information

Journal: International Journal for Housing Science and Its Applications

Volume: 39

Issue number: 4

ISSN (Print): 0146-6518

Ratings:

Scopus rating (2015): CiteScore 0.1 SJR 0.121 SNIP 0.214

Original language: English

Keywords: reuse, recycling, waste, sustainability, Resilience, survey

### Bibliographical note

AUX=ark,"Hakanen, Jani"

Research output: Contribution to journal › Article › Scientific › peer-review

### Indicators for self-organization potential in urban context

Self-organization is a basic mechanism by which complex urban systems organize themselves. This mechanism emerges from individual agents' local interactions, often with unpredictable consequences at the regional level. These emergent patterns cannot be controlled by traditional hierarchical methods, but they can be steered and encouraged towards desirable goals. Self-organization is often used as an allegory for all 'unplanned' activity in cities. It is important to study the actual mechanisms of self-organization in cities to link the theory of self-organization to planning praxis. This work builds on ongoing work exploring novel complex planning tools and methods. Here I explore the key features of open dynamic systems identified in the literature as indicators of self-organizing capacity. I study their applicability in urban spatial planning, and propose three measurable characteristics for estimating the self-organization potential of urban activities. Flow reflects generic accessibility, and is measured using space syntax. Internal order refers to autonomously organizing entities, in this case the clustering tendencies of activities. Enriching rests upon increasing complexity and is measured as changes in degrees of entropy over time. The results indicate that (1) the study area meets the criteria for self-organization, and (2) these characteristics can be applied to discover nodes of higher potential for self-organization in a city.

### General information

Publication status: Published

MoE publication type: A1 Journal article-refereed

Organisations: School of Architecture, Research group: Urban Planning Theory

Contributors: Partanen, J.

Number of pages: 21

Pages: 951-971

Publication date: 19 Sep 2015

Peer-reviewed: Yes

### Publication information

Journal: Environment & Planning B: Planning and Design

Volume: 42

Issue number: 5

ISSN (Print): 0265-8135

Ratings:

Scopus rating (2015): CiteScore 2.5 SJR 0.572 SNIP 1.077

Original language: English

ASJC Scopus subject areas: Environmental Science(all), Geography, Planning and Development

Keywords: complexity, innovation, planning, self-organization, urban evolution

DOIs:

10.1068/b140064p

URLs:

<http://www.scopus.com/inward/record.url?scp=84941798840&partnerID=8YFLogxK> (Link to publication in Scopus)

Source: Scopus

Source ID: 84941798840

Research output: Contribution to journal > Article > Scientific > peer-review

### Mikä estää joustavan asuntorakentamisen?

#### General information

Publication status: Published

MoE publication type: D2 Article in professional manuals or guides or professional information systems or text book material

Organisations: School of Architecture, Research group: ASUTUT

Contributors: Kotilainen, S., Hedman, M.

Number of pages: 3

Pages: 17-19

Publication date: 9 Sep 2015

#### Host publication information

Title of host publication: ARA-viesti 2/2015

Publisher: The Housing Finance and Development Centre of Finland (ARA)

Electronic versions:

Mika\_estaa\_joustavan\_asuntorakentamisen

URLs:

<http://www.ara.fi/fi->

[FI/ARAtietopankki/ARAviesti/ARAviestin\\_verkkoartikkelit/Mika\\_estaa\\_joustavan\\_asuntorakentamisen\(35611\)](http://ARA.tietopankki/ARAviesti/ARAviestin_verkkoartikkelit/Mika_estaa_joustavan_asuntorakentamisen(35611))

<http://urn.fi/URN:NBN:fi:tty-201705171413>

URLs:

<http://www.ara.fi/fi->

[FI/ARAtietopankki/ARAviesti/ARAviestin\\_verkkoartikkelit/Mika\\_estaa\\_joustavan\\_asuntorakentamisen%2835611%29](http://www.ara.fi/fi-)

Research output: Chapter in Book/Report/Conference proceeding › Chapter › Professional

### **Reusing concrete panels from buildings for building: Potential in Finnish 1970s mass housing**

A remarkable share of European mass housing was built with large-panel systems during the 1960s and 1970s. In many countries, this stock is already being demolished or demolition is discussed due to vacancies or social problems. This trend may result in the creation of an unforeseeable amount of concrete waste. Simultaneously, EU has issued the Waste Framework Directive aiming at reuse instead of recycling. Unlike in situ cast concrete, reclaimed prefabricated concrete panels from mass housing carry the potential for reuse. The purpose of this study is to review the reuse potential embedded in Finland's mass housing stock from the perspective of the dimensions of the panels and spaces, i.e., their suitability for architectural (plan) design. The research material consists of architectural drawings of 276 blocks of flats that contain over 26 000 prefabricated wall panels and nearly 14 000 hollow-core slabs, the dimensions of which are compared to current norms and guidelines for dimensioning living spaces. The technical prerequisites for reuse are reviewed with the help of literature. The study results in identifying an inventory of panels typical to Finnish precast concrete construction, which, in principle, should not exist because the building plans were not standardized but were supposed to be unique. The panels are found to be still usable in architectural (plan) design of detached houses, which form one third of annual residential production in Finland.

#### **General information**

Publication status: Published

MoE publication type: A1 Journal article-refereed

Organisations: Research group: Service Life Engineering of Structures, Life Cycle Effectiveness of the Built Environment (LCE@BE), School of Architecture, Department of Civil Engineering, Research group: Built Environment in Transition

Contributors: Huuhka, S., Kaasalainen, T., Hakanen, J. H., Lahdensivu, J.

Number of pages: 17

Pages: 105-121

Publication date: 17 Aug 2015

Peer-reviewed: Yes

Early online date: 15 Jun 2015

#### **Publication information**

Journal: Resources Conservation and Recycling

Volume: 101

Article number: 3029

ISSN (Print): 0921-3449

Ratings:

Scopus rating (2015): CiteScore 5.5 SJR 1.284 SNIP 1.964

Original language: English

ASJC Scopus subject areas: Waste Management and Disposal, Economics and Econometrics

Keywords: Construction and demolition waste, Deconstruction, Dimensions, Precast concrete panels, Reuse, Salvage

Electronic versions:

[Huuhka\\_et\\_al\\_Reusing\\_concrete\\_panels\\_from\\_buildings\\_for\\_building\\_Accepted\\_Manuscript](#). Embargo ended: 15/06/17

DOIs:

[10.1016/j.resconrec.2015.05.017](https://doi.org/10.1016/j.resconrec.2015.05.017)

URLs:

<http://urn.fi/URN:NBN:fi:ty-201707261628>. Embargo ended: 15/06/17

URLs:

<http://www.scopus.com/inward/record.url?scp=84931260052&partnerID=8YFLogxK> (Link to publication in Scopus)

#### **Bibliographical note**

ORG=ark,0.95

ORG=rak,0.05

Source: Scopus

Source ID: 84931260052

Research output: Contribution to journal › Article › Scientific › peer-review

### **Puusta potkua kuntien kehittämiseen**

#### **General information**

Publication status: Published

MoE publication type: E1 Popularised article, newspaper article

Organisations: School of Architecture, Research group: Urban Laboratory  
Contributors: Hynynen, A.  
Publication date: 15 Jul 2015  
Peer-reviewed: Unknown

#### Publication information

Journal: Sanomalehti Ilkka  
Original language: Finnish  
URLs:

<http://www.ilkka.fi/mielipide/yleis%C3%B6lt%C3%A4/puusta-potkua-kuntien-kehitt%C3%A4miseen-1.1871205>  
Research output: Contribution to journal › Comment/debate › General public

#### Puu-Hubi: Perinteestä uusiin innovaatioihin

##### General information

Publication status: Published  
MoE publication type: E1 Popularised article, newspaper article  
Organisations: School of Architecture, Research group: Urban Laboratory  
Contributors: Taanila, T., Panu, A.  
Number of pages: 1  
Pages: 15  
Publication date: 12 Jun 2015  
Peer-reviewed: Unknown

##### Publication information

Journal: Ilkka  
Original language: Finnish  
Research output: Contribution to journal › Article › General public

#### Obstacles and opportunities for the reuse of structural elements

The revised Waste Framework Directive (WFD) obliges Member States to improve material recycling. The EU's objective is to achieve a recycling rate of 70% for construction waste by the year 2020. Direct re-use of building elements is one way to support the objective.

In a national ReUSE project jointly funded by the Ministry of the Environment, VTT Technical Research Centre of Finland, Tampere University of Technology, Ekokem and Finnish Wood Research, the obstacles to and opportunities for re-use of structural elements were evaluated. The project addressed the potential and challenges currently facing the re-use of elements from existing buildings and design for re-use in new buildings. Number of case studies in which elements have been used in new buildings has also been mapped in the project.

Returning the structural components back to service in the built environment is a rather complex process affecting all the parties involved in the life cycle. Designers have to consider the new source of materials and carefully plan for deconstruction, increased demand for coordination and flexibility in decision making will be needed during construction, and finally new business areas can be opened up to provide services for the phase between deconstruction and new building. The process also depends strongly on the size and complexity of the element or structure that is being re-used.

Re-use of building elements without re-processing saves almost all of their embodied impacts and preserves their economic and cultural value. This has been always seen as the biggest opportunity to increase environmental efficiency of the built environment. In most of the cases the presented concept competes with other recovery strategies, and therefore its feasibility has to be always evaluated. Moreover, it is possible to extend the service life of such composite elements in existing building stock that cannot be easily recycled because of difficult material separation. Re-use creates many business opportunities in the local communities especially for re-distribution of salvaged material. In many cases is also cheaper to dismantle building part-by-part and sell the components than traditional demolition and waste processing. In that sense we can conclude that re-use concept is contributing to all aspects of sustainability of the built environment.

Unfortunately, there are many practical barriers to the building components re-use that should be addressed. One is the lack of strength grading rules for materials in re-used elements. This means that re-usable load-bearing components are forced to be applied for non-structural purpose unless they are thoroughly tested. Another barrier is the difficult deconstruction of existing buildings. The extended time and high demands on manual labour is usually increasing the cost of the whole process. This can be partly improved by applying standardized deconstruction practices, proper staff training and using selected technologies for deconstruction. However, the greatest impact on the building re-usability is in its design stage. Therefore we recommend addressing this issue in the planning of future steps towards resource efficiency.

##### General information

Publication status: Published



MoE publication type: A4 Article in a conference publication  
Organisations: School of Architecture, Research group: Built Environment in Transition, VTT Tech Res Ctr Finland, VTT Technical Research Center Finland  
Contributors: Hradil, P., Huuhka, S., Wahlström, M.  
Number of pages: 2  
Pages: 85-86  
Publication date: 10 Jun 2015

#### Host publication information

Title of host publication: Book of abstracts of WASCON 2015 - Resource efficiency in construction : 9th International Conference on the Environmental and Technical Implications of Construction with Alternative Materials  
Place of publication: Santander, Spain  
Editors: Andrés, A., Coz, A., Arm, M., Heynen, J., Stegemann, J., Vandecasteele, C.  
ISBN (Electronic): 9788460684220  
Keywords: resource efficiency, recycling  
URLs:  
<http://wascon2015.geruc.es/event/wascon-2015-conference/>

#### Bibliographical note

Full papers on USB  
Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

#### Betonilähiö joustaa muuttuviin asumistarpeisiin

Suomalaisesta kerrostaloasuntokannasta 26% on peräisin 1970-luvulta. Tämän joukon yksistään on arvioitu aiheuttavan noin 70 000 asunnon perusparannustarpeen seuraavien kymmenen vuoden aikana. Rakenteellisten seikkojen lisäksi erityisesti demografiset muutokset luovat painetta olemassa olevan rakennuskannan päivittämiseksi uudistuotannon ohessa. Tampereen teknillisen yliopiston Arkkitehtuurin laitoksen MuutosMallit-hankkeessa on tutkittu aikakauden suomalaisia asuinkerrostaloja asuntojen uudistamisen näkökulmasta.

#### General information

Publication status: Published  
MoE publication type: D1 Article in a trade journal  
Organisations: School of Architecture, Research group: ASUTUT, Tampere University of Technology  
Contributors: Kaasalainen, H., Achrén, H.  
Number of pages: 6  
Pages: 54-59  
Publication date: Jun 2015  
Peer-reviewed: Unknown

#### Publication information

Journal: Betoni  
Volume: 85  
Issue number: 2  
ISSN (Print): 1235-2136  
Original language: Finnish  
ASJC Scopus subject areas: Architecture  
Keywords: renovation, accessibility, housing estate, aging, elderly, diversity  
URLs:  
[http://issuu.com/kivirakentaminen/docs/betoni\\_2\\_2015\\_koko\\_lehti\\_](http://issuu.com/kivirakentaminen/docs/betoni_2_2015_koko_lehti_)  
Research output: Contribution to journal › Article › Professional

#### Kangasalan Lamminrahka. Yhdyskuntasuunnittelun ammattikurssi 1 2015

#### General information

Publication status: Published  
MoE publication type: D4 Published development or research report or study  
Organisations: School of Architecture, Research group: Urban Planning  
Contributors: Rajaniemi, J. (ed.), Thureson, J. (ed.), Chudoba, M. (ed.)  
Number of pages: 92  
Publication date: Jun 2015

#### Publication information

Place of publication: Tampere  
Publisher: Tampere University of Technology, School of Architecture  
ISBN (Print): 978-952-15-3540-6

ISBN (Electronic): 978-952-15-3541-3

Original language: Finnish

Electronic versions:

Kangasalan\_Lamminrahka-TTY\_YSAK1\_2015

URLs:

<http://urn.fi/URN:NBN:fi:tyy-201603183718>

Research output: Book/Report > Commissioned report > Professional

**Kutsuttuna kuvataiteilijana: luonnos Nokian Harjuniityn koulukeskuksen julkiseksi taideteokseksi: kilpailevat luonnokset tilattu neljältä taiteilijalta. ei toteutusta.**

#### General information

Publication status: Published

MoE publication type: F1 Published independent work of art

Organisations: School of Architecture

Contributors: Soini, H.

Publication date: Jun 2015

Research output: Artistic and non-textual form > Artefact > Solo art production > peer-review

**Joustavan asunnon tilalliset logiikat: Erilaisiin käyttöihin mukautumiskykyisen asunnon tilallisista lähtökohdista ja suunnitteluperiaatteista**

This research maps spatial solutions and spatial thinking that generate flexibility to dwellings. Flexibility is defined here as the ability to adapt to various uses. The research questions are a) what kind of spatial solutions and interrelated principles of flexible space organization can be distinguished, b) what kind of relation or interdependency is there between these spatial principles and dwelling flexibility, and c) which issues should the architect specifically focus on when designing dwellings following these principles.

The research approaches flexible dwelling space and spatial thinking behind it in two different ways. The first approach takes a look at various classifications and conceptualizations of flexible dwellings made by housing researchers in Europe since the early 1960's. The second approach looks directly at a variety of flexible dwellings. Comparing and analyzing floor plans this approach builds knowledge and understanding on various spatial features that create flexibility.

These two approaches are treated in a comparative way. This means that the conceptualizations are used in grouping exemplary floor plans and floor plan groups are used to analyse contents and meanings of the conceptualizations. Through this double exposure a new theory, a theory of various spatial logics of dwelling flexibility, is formulated. Spatial logic, a term and concept adopted in this research, is defined as a principle or understanding that guides the organization, provision and arrangement of the built space. The concept unites tangible space and human thinking.

In this research seven distinct spatial logics of dwelling flexibility are formulated. These logics are based on transformability or multifunctionality. Alongside the logics these two basic approaches to flexible space are widely discussed.

Every logic opens up a specific view to flexibility. This means that it has certain potential but also various limitations. None of the logics is able to provide all inclusive flexibility. However, a space or a set of spaces that constitute a dwelling does not need to follow only one single logic but several logics can be combined.

The logics guide design and building. They materialize as buildings' long-lasting properties. The choice of a logic that architect consciously or unconsciously makes is a vitally important strategic decision that essentially affects the sustainability of the built environment.

The theory produced in this research contains new terminology and a set of concepts focusing on the thematics of flexibility in Finnish. It is useful for both design and research on housing as well as for education. The theory challenges some common design practices in housing, especially the dominant 20th-century discourse emphasizing tight-fit functionality

#### General information

Publication status: Published

MoE publication type: G4 Doctoral dissertation (monograph)

Organisations: School of Architecture

Contributors: Tarpio, J.

Number of pages: 427

Publication date: 15 May 2015

#### Publication information

Publisher: Tampereen teknillinen yliopisto. Arkkitehtuurin laitos  
ISBN (Print): 978-952-15-3509-3  
ISBN (Electronic): 978-952-15-3510-9  
Original language: Finnish

#### **Publication series**

Name: Tampereen teknillinen yliopisto. Arkkitehtuurin laitos. Asuntosuunnittelu

No.: 18

ISSN (Print): 2242-4598

Keywords: architecture, housing, architectural theory, design theory, spatial theory, flexibility, transformability, multifunctionality

Electronic versions:

Jyrki Tarpio Joustavan asunnon tilalliset logiikat

URLs:

<http://urn.fi/URN:ISBN:978-952-15-3510-9>

Research output: Book/Report > Doctoral thesis > Monograph

#### **Asukaslähtöinen puukerrostalokortteli tilaelementeistä: Esimerkkinä Kokkolan Nukkumatin tontin suunnitelma**

This study examines resident-oriented modular timber framed construction in relation to the residential environment, multi-storey apartment buildings and apartments. Resident-orientation is a concept that in housing construction terminology, specifies the concept of user-orientation.

Special features of the production of modular timber framed construction affect design mainly in the scales of apartments and apartment buildings. When an apartment can be modified to suit the user's needs, a building's service life and the degree of utilisation increase. This study examines the possibilities of adaptable modular timber framed housing construction using the principle of adaptable zones and examples of three placement methods of modules as a tool. The analysis is supported by a large variety of modular timber framed apartment studies and their adaptable variations.

The study also attempts to better understand – regardless of the production method – the appreciation of residential environments and seeks to find an interpretation of how the built environment can be developed on the basis of residential preference studies. In addition, the study analyses the potential benefits of modular timber framed construction for realising residential environment preferences.

The study combines practical design and theoretical analysis. The study has incorporated two case designs, of which one modular timber framed housing block in central Kokkola is introduced. The aim of the study is to both determine necessary areas of development regarding modular timber framed building construction from the viewpoint of architectural and housing design; and to function as a resource for ideas and knowledge regarding the design of modular timber framed housing blocks.

#### **General information**

Publication status: Published

MoE publication type: D4 Published development or research report or study

Organisations: School of Architecture, Research group: ASUTUT

Contributors: Kotilainen, S., Hedman, M.

Number of pages: 213

Publication date: 7 May 2015

#### **Publication information**

Place of publication: Tampere

Publisher: Tampereen teknillinen yliopisto. Arkkitehtuurin laitos

ISBN (Print): 978-952-15-3494-2

ISBN (Electronic): 978-952-15-3495-9

Original language: Finnish

#### **Publication series**

Name: Tampereen teknillinen yliopisto. Arkkitehtuurin laitos. Asuntosuunnittelu. Julkaisu

No.: 17

ASJC Scopus subject areas: Architecture

Keywords: Timber apartment building, modular construction, resident orientation, adaptable housing construction

Electronic versions:

Asukaslähtöinen puukerrostalokortteli tilaelementeistä

URLs:

<http://URN.fi/URN:ISBN:978-952-15-3495-9>

#### **Bibliographical note**

### **Library as a Partner in Co-Designing Learning Spaces: A Case Study at Tampere University of Technology, Finland**

This article presents a case of co-designed temporary learning spaces at a Finnish academic library, together with the results of a user-survey. The experimental development of the multifunctional spaces offered an opportunity for the library to collaborate with its parent organisation thus broadening the role of the library. Hence, library can be seen as a third player facilitating learning spaces. Additionally, the library's own expertise was strengthened through successful cooperation with the undergraduate students and other actors. The results support prior research, where studying in the library is target-oriented differing from other learning spaces in providing support and resources.

#### **General information**

Publication status: Published

MoE publication type: A1 Journal article-refereed

Organisations: Library, School of Architecture, Research group: Public Buildings

Contributors: Tevaniemi, J., Poutanen, J., Lähdemäki, R.

Number of pages: 21

Pages: 304-324

Publication date: 7 May 2015

Peer-reviewed: Yes

#### **Publication information**

Journal: New Review of Academic Librarianship

Volume: 21

Issue number: 3

ISSN (Print): 1361-4533

Ratings:

Scopus rating (2015): CiteScore 1.1 SJR 0.648 SNIP 0.763

Original language: English

ASJC Scopus subject areas: Library and Information Sciences

Keywords: co-design, cooperation, learning commons, learning spaces, undergraduate students

DOIs:

10.1080/13614533.2015.1025147

URLs:

<http://urn.fi/URN:NBN:fi:tty-201706261618>

#### **Bibliographical note**

publication\_forum:64000

Source: Scopus

Source ID: 84940725712

Research output: Contribution to journal › Article › Scientific › peer-review

### **Joustavat asuinympäristöt: 10 visiota aikaa kestäväään kaupunkiasumiseen**

Housing production is usually based on the belief of predictability, but this approach is inconsistent with the fact that the future cannot be predicted. Residential design and construction must therefore adopt more flexible and adaptable principles, where the impossibility of making predictions is taken into account. Adaptable housing can help to meet the forthcoming and increasingly diverse housing needs, providing housing alternatives in a sustainable way. Ten visions presented in this publication introduce a wide range of means, methods and scales to achieve adaptability and flexibility in housing construction. The publication consists of ten design assignments created during an advanced housing design course at Tampere University of Technology in spring 2013. The publication presents not only a wide range of means to achieve flexibility in housing construction, but also their direct connection with the practice. The publication is part of a study concerning user-centric spaces in the Indoor Environment Program of RYM Oy.

#### **General information**

Publication status: Published

MoE publication type: D6 Edited professional books

Organisations: School of Architecture, Research group: ASUTUT

Contributors: Kotilainen, S. (ed.), Hedman, M. (ed.), Heikkinen, J. (ed.)

Number of pages: 268

Publication date: 31 Mar 2015

#### **Publication information**

Place of publication: Tampere

Publisher: Tampereen teknillinen yliopisto. Arkkitehtuurin laitos

ISBN (Print): 978-952-15-3476-8  
ISBN (Electronic): 978-952-15-3477-5  
Original language: Finnish

#### Publication series

Name: Housing Design

Publisher: Tampere University of Technology. School of Architecture. Housing Design. Publication;16

Electronic versions:

joustavat\_asuinymparistot

URLs:

<http://URN.fi/URN:ISBN:978-952-15-3477-5>

URLs:

<http://URN.fi/URN:ISBN:978-952-15-3477-5>

#### Bibliographical note

Versio ja lupa ok 12.1.2016 KK

Research output: Book/Report > Anthology > Professional

### Matkalla joustaviin asuinympäristöihin

#### General information

Publication status: Published

MoE publication type: D2 Article in professional manuals or guides or professional information systems or text book material

Organisations: School of Architecture, Research group: ASUTUT

Contributors: Kotilainen, S.

Number of pages: 4

Pages: 10-13

Publication date: 31 Mar 2015

#### Host publication information

Title of host publication: Joustavat asuinympäristöt : 10 visiota aikaa kestävään kaupunkiasumiseen

Volume: 16

Place of publication: Tampere

Publisher: Tampereen teknillinen yliopisto. Arkkitehtuurin laitos

Article number: 1

ISBN (Print): 978-952-15-3476-8

ISBN (Electronic): 978-952-15-3477-5

#### Publication series

Name: Housing Design

Publisher: Tampere University of Technology. School of Architecture.

Volume: 16

URLs:

<http://URN.fi/URN:ISBN:978-952-15-3477-5>

Research output: Chapter in Book/Report/Conference proceeding > Chapter > Professional

### Laboratorioiden yhteiskäyttö yliopistokampuksilla

Tässä artikkelissa kuvataan, miten laboratorioiden yhteiskäyttöisyyttä

on menestyksekkäästi sovellettu biolääketieteellisellä yliopistokampuksella 1990-luvulta lähtien ja miten yhteiskäyttöisyys

on vaikuttanut tilaratkaisuihin eri mittakaavoissa. Artikkelissa esitellään core-laboratorion malli ratkaisuna

yhteiskäyttöisyyden haasteisiin. Core-laboratorion tarkoituksena on tarjota tiettyjä erikoispalveluita, joita tutkija voi

hyödyntää tutkimukseensa parhaiten soveltuvalla tavalla. Tämän lisäksi yhteiskäyttöisiä resursseja kehitetään paikallisella

tasolla. Pienemmät, paikallisen tason core-laboratoriot palvelevat alan tutkimusta

alueellisesti kampuksen, rakennuksen tai huoneistojen mittakaavassa.

Tapaustutkimuksen tulokset osoittavat, että laboratorioiden yhteiskäyttöisyydessä on paljon potentiaalia tutkijoiden

tietotaidon vaihdon, yhteisöllisyyden kehittymisen ja kustannustehokkaan toiminnan näkökulmista. Henkilöstön

rekrytoinnin ja sitoutuneisuuden näkökulmista voidaan nähdä, että parhaat laboratoriot houkuttelevat parhaita tutkijoita.

Globalisaation myötä kilpailu huippuosaajista

vaikuttaa kiihtyvän ja kansainvälinen kilpailu on jatkuvasti käynnissä. Pienelle maalle kuten Suomi, yhteiskäyttöisyyden ja

jaettujen resurssien toimintamalli tarjoaa mahdollisuuden kehittää ja ylläpitää state-of-art -laboratorioympäristöjä.

#### General information

Publication status: Published

MoE publication type: D2 Article in professional manuals or guides or professional information systems or text book material

Organisations: School of Architecture, Research group: Public Buildings

Contributors: Yläoutinen, J., Peltoniemi, S.

Number of pages: 10

Pages: 350-359

Publication date: Mar 2015

### Host publication information

Title of host publication: Oppiva kampus : How to co-create campus?

Place of publication: Tampere

Publisher: Suomen Yliopistokiinteistöt Oy

Editors: Nenonen, S., Kärnä, S., Junnonen, J., Tähtinen, S., Sandström, N.

ISBN (Print): 978-952-15-3478-2

ISBN (Electronic): 978-952-15-3479-9

URLs:

[http://sykoy.fi/wp-content/uploads/oppiva-kampus\\_valmis\\_pieni.pdf](http://sykoy.fi/wp-content/uploads/oppiva-kampus_valmis_pieni.pdf)

### Bibliographical note

EXT="Yläoutinen, Jyrki"

Research output: Chapter in Book/Report/Conference proceeding › Chapter › Professional

### Uudet arkkitehtoniset ratkaisumallit muuttavat kampuksien ilmettä

Uudet pedagogiset oivallukset sekä tekniset innovaatiot ovat radikaalisti muokanneet yliopisto-oppimista, mikä asettaa merkittäviä kehitystarpeita myös oppimistiloille. Uudenlaiset oppimistavat vaativat uudenlaisia tiloja ja paikkoja, jotka tukevat oppimista parhaalla mahdollisella tavalla. Artikkelissa pohditaan kuinka kampuksia voidaan elävöittää arkkitehtuurin keinoin? Miten eri mittakaavalliset ratkaisut tukevat oppimista, vuorovaikutusta sekä luovuutta?

Kampusten uudistamista voidaan tarkastella erilaisista tilallisista ja arkkitehtonisista näkökulmista. Tässä artikkelissa esitetään kolmen tarkastelutason ideoita kampus-, rakennus- ja tilamittakaavoissa. Kokonaisvaltaiset ratkaisut, joissa rakennuksen tilat ja toiminta uudistuvat täysin, omaavat valtavan potentiaalin muuttaa ihmisten välistä vuorovaikutusta sekä tilojen käyttöä. Tällaiset ratkaisut saattavat olla kuitenkin kalliita ja hitaita toteuttaa. Pienemmän mittakaavan ratkaisut vaikuttavat pienemmällä alueella, mutta ovat toteutukseltaan edullisempia ja nopeampia. Esimerkiksi kampusten vajaakäyttöisten tilojen, kuten käytävien ja aulatilojen ottaminen hyötykäyttöön voisi tehostaa merkittävästi kampusten tilarakennetta. Täysin uusien toimintojen sijoittaminen näihin vajaakäyttöisiin tiloihin voisi lisäksi luoda kampuksista eläviä urbaaneja ympäristöjä, joissa on toimintaa vuorokauden ympäri. Olemassa olevat rakennukset voivat täten toimia alustoina uusille arkkitehtonisille ratkaisuille, jotka viestivät opetuksen ja tutkimuksen ajankohtaisuudesta. Tutkimuksen tuloksia voidaan soveltaa joustavasti erilaisten kampusympäristöjen muutosten suunnittelussa. Artikkelit toimii keskustelun avauksena suunnittelijoiden, kampuskehittäjien sekä käyttäjien välisessä vuoropuhelussa. Esitetyt ratkaisumallit paljastavat, että olemassa olevissa kampuksissa ja niiden tilarakenteessa on paljon kehityspotentiaalia. Artikkelissa esitetyt visiot herättelevät lukijoita katsomaan olemassa olevia kampuksia uudesta näkökulmasta uusien innovatiivisten esimerkkien ja tilaratkaisujen kautta.

### General information

Publication status: Published

MoE publication type: D2 Article in professional manuals or guides or professional information systems or text book material

Organisations: School of Architecture, Research group: Public Buildings

Contributors: Poutanen, J., Peltoniemi, S., Pihlajarinne, N.

Number of pages: 22

Pages: 72-93

Publication date: Mar 2015

### Host publication information

Title of host publication: Oppiva kampus : How to co-create campus?

Place of publication: Tampere

Publisher: Suomen Yliopistokiinteistöt Oy

Editors: Nenonen, S., Kärnä, S., Junnonen, J., Tähtinen, S., Sandström, N.

ISBN (Print): 978-952-15-3478-2

ISBN (Electronic): 978-952-15-3479-9

URLs:

[http://sykoy.fi/wp-content/uploads/oppiva-kampus\\_valmis\\_pieni.pdf](http://sykoy.fi/wp-content/uploads/oppiva-kampus_valmis_pieni.pdf)

Research output: Chapter in Book/Report/Conference proceeding › Chapter › Professional

## MASTRA: Strateginen kaavakartta - maakuntakaavamerkintöjen ja -määräysten uudet lähestymistavat - osa C

### General information

Publication status: Published  
MoE publication type: D4 Published development or research report or study  
Organisations: School of Architecture, Research group: EDGE  
Contributors: Joutsiniemi, A., Vanhatalo, J.  
Number of pages: 61  
Publication date: 9 Feb 2015

### Publication information

Place of publication: Tampere  
Publisher: Pirkanmaan liitto  
ISBN (Print): 978-951-590-312-9  
Original language: Finnish  
URLs:  
[http://maakuntakaava2040.pirkanmaa.fi/sites/default/files/Mastra\\_C\\_NETTIIN.pdf](http://maakuntakaava2040.pirkanmaa.fi/sites/default/files/Mastra_C_NETTIIN.pdf)  
Research output: Book/Report › Commissioned report › Professional

### Maailma muuttuu – miksei lähiöasunnotkin?

Tampere University of Technology's School of Architecture studies how the Finnish 1970's housing estates could be renovated to meet today's changed housing needs.

### General information

Publication status: Published  
MoE publication type: D1 Article in a trade journal  
Organisations: School of Architecture, Research group: Built Environment in Transition, Tampere University of Technology  
Contributors: Kaasalainen, H., Achrén, H., Huuhka, S.  
Number of pages: 2  
Pages: 22-23  
Publication date: 20 Jan 2015  
Peer-reviewed: Unknown

### Publication information

Journal: Araviesti  
Issue number: 1  
ISSN (Print): 1457-8093  
Original language: Finnish  
ASJC Scopus subject areas: Architecture  
Keywords: renovation, housing estates, accessibility, diversity  
URLs:  
<http://www.ara.fi/download/noname/%7B3C577C2D-064A-471F-92DA-0E877972A389%7D/106508>  
Research output: Contribution to journal › Article › Professional

### School travel mode choice and the characteristics of the urban built environment: The case of Helsinki, Finland

As observed in several previous studies, the nature of the urban structure can affect children's mode of transportation to school. In this paper, we identify and investigate, in the Finnish context, the elements of the urban structure around homes and en route to school that promote children's ability to walk or cycle to school, using the conceptual domains proposed by Mitra (2013) to frame the work.

The associations discovered can, to a large extent however, be viewed as contrasting significantly with those identified in previous research, as an increase in the variables, essentially indicating urbanity, decreased the likelihood of the children walking or cycling to school. This is due to the existence of a well-functioning public transportation network in the Helsinki region. The associations were more significantly associated with the environment en route to school than with the environment around homes. This research improves our understanding of active school transportation behaviour in an environment that is already relatively supportive of active transportation and independent mobility by offering a well-functioning public transportation system. (C) 2014 Elsevier Ltd. All rights reserved.

### General information

Publication status: Published  
MoE publication type: A1 Journal article-refereed  
Organisations: School of Architecture, Research group: EDGE, Aalto Univ, Aalto University, Dept Real Estate Planning & Geoinformat  
Contributors: Broberg, A., Sarjala, S.  
Number of pages: 10  
Pages: 1-10

Publication date: Jan 2015

Peer-reviewed: Yes

### Publication information

Journal: Transport Policy

Volume: 37

ISSN (Print): 0967-070X

Ratings:

Scopus rating (2015): CiteScore 3.8 SJR 1.403 SNIP 1.521

Original language: English

Keywords: Children, Youth, Active transport, Independent mobility, GIS, PHYSICAL-ACTIVITY, FUTURE-RESEARCH, ACTIVE TRAVEL, NEIGHBORHOOD ENVIRONMENT, INDEPENDENT MOBILITY, CHILDREN, FRAMEWORK, TRANSPORTATION, YOUTH, TRIP

DOIs:

10.1016/j.tranpol.2014.10.011

Source: WOS

Source ID: 000347594100001

Research output: Contribution to journal › Article › Scientific › peer-review

### A comparative study of urban form

This paper compares four different approaches to urban morphology: historico-geographical, process typological, space syntax, and spatial analytical. It explores in particular the use of four fundamental concepts proposed in these approaches: morphological region, typological process, spatial configuration, and cell. The four concepts are applied in a traditional gateway area of the city of Porto, Portugal. The area includes considerable variety of urban form. The main purpose is to understand how to combine and co-ordinate these approaches so as to improve the description, explanation and prescription of urban form.

### General information

Publication status: Published

MoE publication type: A1 Journal article-refereed

Organisations: School of Architecture, Research group: Urban Planning Theory, Univ Porto, Universidade do Porto, Fac Med, Dept Med Imaging, Universidade do Porto, Faculdade de Engenharia, 17.07.2006, Centro de Investigação do Território, Transportes E Ambiente, Universidade do Porto, CM Arquiteta

Contributors: Oliveira, V., Monteiro, C., Partanen, J.

Number of pages: 20

Pages: 73-92

Publication date: 2015

Peer-reviewed: Yes

### Publication information

Journal: Urban Morphology

Volume: 19

Issue number: 1

ISSN (Print): 1027-4278

Ratings:

Scopus rating (2015): CiteScore 1.3 SJR 0.141 SNIP 1.26

Original language: English

ASJC Scopus subject areas: Urban Studies, Archaeology, Archaeology

Keywords: Conzenian school, Muratorian school, Space syntax, Spatial analysis, Urban form

URLs:

<http://www.scopus.com/inward/record.url?scp=84927724787&partnerID=8YFLogxK> (Link to publication in Scopus)

Source: Scopus

Source ID: 84927724787

Research output: Contribution to journal › Article › Scientific › peer-review

### Ainutkertaisten tarpeiden tragedia

### General information

Publication status: Published

MoE publication type: A1 Journal article-refereed

Organisations: School of Architecture, Research group: EDGE

Contributors: Joutsiniemi, A.

Publication date: 2015

Peer-reviewed: Yes



### Publication information

Journal: Yhdyskuntasuunnittelu

Volume: 53

Issue number: 2

ISSN (Print): 1459-6806

Original language: Finnish

URLs:

<http://www.yss.fi/journal/ainutkertaisten-tarpeiden-tragedia/>

Research output: Contribution to journal › Editorial › Scientific › peer-review

### Arkinen liikkuminen kontekstina kaupunkitilan tarkasteluun

#### General information

Publication status: Published

Organisations: School of Architecture

Contributors: Tartia, J.

Publication date: 2015

Peer-reviewed: No

#### Publication information

Journal: Versus

ISSN (Print): 2242-3443

Original language: Finnish

URLs:

<http://www.ays.fi/versus/>

Research output: Contribution to journal › Special issue › Scientific

### Arkkitehdit saisivat olla hieman vaatimattomampia: Juhani Pallasmaan haastattelu

#### General information

Publication status: Published

MoE publication type: B1 Article in a scientific magazine

Organisations: School of Architecture, Research group: History of Architecture

Contributors: Passinmäki, P.

Number of pages: 4

Pages: 42-45

Publication date: 2015

Peer-reviewed: No

#### Publication information

Journal: Niin ja näin

Volume: 87

Issue number: 4

ISSN (Print): 1237-1645

Original language: Finnish

Electronic versions:

Arkkitehdit saisivat olla hieman vaatimattomampia. Juhani pallasmaan haastattelu

URLs:

<http://urn.fi/URN:NBN:fi:tuni-202004083156>

URLs:

<http://www.netn.fi/lehti/niin-nain-415>

Research output: Contribution to journal › Article › Scientific

### Betonielementtien uudelleenkäyttömahdollisuudet

#### General information

Publication status: Published

MoE publication type: D4 Published development or research report or study

Organisations: Department of Civil Engineering, Research group: Service Life Engineering of Structures, School of Architecture, Research group: Built Environment in Transition

Contributors: Lahdensivu, J., Huuhka, S., Annala, P., Pikkuvirta, J., Köliö, A., Pakkala, T.

Number of pages: 78

Publication date: 2015

### Publication information

Place of publication: Tampere  
Publisher: Tampereen teknillinen yliopisto. Rakennustekniikan laitos  
ISBN (Electronic): 978-952-15-3461-4  
Original language: Finnish

### Publication series

Name: Tampereen teknillinen yliopisto. Rakennustekniikan laitos. Rakennetekniikka. Tutkimusraportti  
Publisher: Tampereen teknillinen yliopisto. Rakennustekniikan laitos  
Volume: 162  
ISSN (Print): 1797-9161  
Electronic versions:  
lahdensivu\_betonielementtien\_uudelleenkayttomahdollisuudet.pdf  
URLs:  
<http://urn.fi/URN:ISBN:978-952-15-3461-4>

### Bibliographical note

Contribution: organisation=rak,FACT1=1<br/>Portfolio EDEND: 2015-03-27  
Source: researchoutputwizard  
Source ID: 18  
Research output: Book/Report > Commissioned report > Professional

## Book of Abstracts - 13th AESOP Complexity and Planning Thematic Group Meeting: Complexity and Digitalisation of Cities - Challenges for Urban Planning and Design

### General information

Publication status: Published  
MoE publication type: D5 Text book, professional manual or guide or a dictionary  
Organisations: School of Architecture, Research group: Urban Planning Theory  
Contributors: Partanen, J. (ed.)  
Publication date: 2015

### Publication information

Publisher: Tampere University of Technology. School of Architecture  
ISBN (Electronic): 978-952-15-3449-2  
Original language: English  
Electronic versions:  
AESOP\_PC2015\_BOOK\_OF\_ABSTRACTS  
URLs:  
<http://urn.fi/URN:ISBN:978-952-15-3449-2>  
Research output: Book/Report > Anthology > Scientific

### Children and youth transport in different urban morphological types

As demonstrated in many earlier studies, the qualities of physical environment have great impacts on physical activity (PA) behavior. However, studying individual built environmental variables often produces contradictory effects between studies. To overcome this, we composed multivariate environmental types using principal component analysis that take notice of the inter-correlations between the physical environmental variables. To get a realistic view of the places children and adolescents visit in their daily life, we used mapping methodology where children themselves defined their important places. Based on 16 built environmental variables, six built environmental types were composed around these places.

We found that walking and cycling was most prominent in residential environments and least common in mixed use areas with offices. Environments with big commercial buildings as well as green environments had the highest proportions of car use. Most places, in general, were visited with friends, but most typically, areas with big commercial buildings and mixed use areas with offices were reached in the company of friends. Relatively many places were visited alone in residential areas.

### General information

Publication status: Published  
MoE publication type: A1 Journal article-refereed  
Organisations: School of Architecture, Research group: EDGE, Research group: Urban Laboratory, Aalto University  
Contributors: Sarjala, S., Broberg, A., Hynynen, A.  
Number of pages: 17  
Pages: 87-103  
Publication date: 2015

Peer-reviewed: Yes

### Publication information

Journal: The Journal of Transport and Land Use

Volume: 9

Issue number: 2

ISSN (Print): 1938-7849

Ratings:

Scopus rating (2015): CiteScore 2.1 SJR 0.748 SNIP 1.163

Original language: English

DOIs:

10.5198/jtlu.2015.803

Research output: Contribution to journal > Article > Scientific > peer-review

### Cohousing in Finland

#### General information

Publication status: Published

MoE publication type: D2 Article in professional manuals or guides or professional information systems or text book material

Organisations: School of Architecture, Research group: ASUTUT

Contributors: Helamaa, A.

Pages: 112-117

Publication date: 2015

#### Host publication information

Title of host publication: Europe Co-operative Housing

Place of publication: Berlin

Publisher: Jovis

Editor: Wohnbund e.V

ISBN (Print): 978-3-86859-406-5

Research output: Chapter in Book/Report/Conference proceeding > Chapter > Professional

### Complexity and Digitalisation of Cities - Challenges for Urban Planning and Design: Conference Proceedings of 13th AESOP Complexity and Planning Thematic Group Meeting 15th-16th January 2015, Tampere, Finland

#### General information

Publication status: Published

MoE publication type: C2 Edited books

Organisations: School of Architecture, Research group: Urban Planning Theory

Contributors: Partanen, J. (ed.)

Number of pages: 226

Publication date: 2015

#### Publication information

Publisher: Tampere University of Technology. School of Architecture

ISBN (Electronic): 978-952-15-3711-0

Original language: English

Electronic versions:

AESOP\_PC2015\_PROCEEDINGS

URLs:

<http://urn.fi/URN:ISBN:978-952-15-3711-0>

Research output: Book/Report > Anthology > Scientific > peer-review

### Experience-Driven Design of Ambiences for Future Pop Up Workspaces

Knowledge work is in transformation and new means for supporting workers' wellbeing and productivity are needed. Pop Up workspaces are temporary and often social working environments where people can modify their environment to suit their current work mode. The aim of the present research was to explore the opportunities of future Pop Up workspaces, and specifically their technology-mediated ambiances that can provide meaningful experiences for the workers. We employed the Experience-Driven Design (EDD) approach to gain insights of the desired experiences in Pop Up workspaces. We first conducted three participatory group sessions to ideate experience types for Pop Up workspaces. We then run a multidisciplinary concepting workshop in which we designed concepts for technology-mediated ambiances. Five experience categories for worker mindsets were identified, namely Liberty, Fellowship, Determination, Retreat and Recovery. We present ambience concepts that utilise the mindsets and related target experiences, and how they can be

supported by ambient technologies.

#### General information

Publication status: Published

MoE publication type: A4 Article in a conference publication

Organisations: Department of Pervasive Computing, Research group: Public Buildings, School of Architecture, Department of Information Management and Logistics, Research group: Novi, Research area: User experience, Augmented Human Activities (AHA), Institute of Society and Space (SOCIS)

Contributors: Ahtinen, A., Poutanen, J., Vuolle, M., Väänänen, K., Peltoniemi, S.

Number of pages: 17

Pages: 296-312

Publication date: 2015

#### Host publication information

Title of host publication: Ambient Intelligence : 12th European Conference, Aml 2015, Athens, Greece, November 11-13, 2015, Proceedings

Publisher: Springer Verlag

ISBN (Print): 978-3-319-26004-4

ISBN (Electronic): 978-3-319-26005-1

#### Publication series

Name: Lecture Notes in Computer Science

Volume: 9425

ISSN (Print): 0302-9743

DOIs:

10.1007/978-3-319-26005-1\_20

Additional files:

Ahtinen\_et\_al\_Aml2015\_v07\_cameraready\_v01

URLs:

<http://www.ami-conferences.org/2015/>

#### Bibliographical note

ORG=tie,0.7

ORG=ark,0.2

ORG=tlo,0.1

Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific > peer-review

#### Kangasala-talo: Vanhan kulttuuripitäjän uusi kulttuuritalo

##### General information

Publication status: Published

MoE publication type: D1 Article in a trade journal

Organisations: School of Architecture, Research group: History of Architecture

Contributors: Koponen, O.

Number of pages: 3

Pages: 67-69

Publication date: 2015

Peer-reviewed: Unknown

##### Publication information

Journal: Arkkitehti

Volume: 2015

Issue number: 4/2015

ISSN (Print): 0783-3660

Original language: Finnish

Research output: Contribution to journal > Article > Professional

#### Kastellin monitoimitalo Oulu, Arkkitehtilehti 4/15

##### General information

Publication status: Published

MoE publication type: F1 Published independent work of art

Organisations: School of Architecture, Research group: Architecture: History, Theory and Innovations

Contributors: Lahdelma, I.

Publication date: 2015

Research output: Artistic and non-textual form › Architecture › Solo art production

### **Kattavasti rivitaloista**

#### **General information**

Publication status: Published

MoE publication type: D1 Article in a trade journal

Organisations: School of Architecture, Research group: ASUTUT

Contributors: Helamaa, A.

Number of pages: 2

Pages: 80-81

Publication date: 2015

Peer-reviewed: Unknown

#### **Publication information**

Journal: Arkkitehti

Issue number: 3

ISSN (Print): 0783-3660

Original language: Finnish

Research output: Contribution to journal › Book/Film/Article review › Professional

### **Kaupunki näyttämönä**

#### **General information**

Publication status: Published

MoE publication type: D1 Article in a trade journal

Organisations: School of Architecture, Research group: Urban Planning

Contributors: Chudoba, M.

Number of pages: 2

Pages: 12-13

Publication date: 2015

Peer-reviewed: Unknown

#### **Publication information**

Journal: Arkkitehti uutiset

Issue number: 8

ISSN (Print): 0044-8915

Original language: Finnish

URLs:

[http://www.e-julkaisu.fi/SAFA/au\\_arkkitehti uutiset/8\\_2015/](http://www.e-julkaisu.fi/SAFA/au_arkkitehti uutiset/8_2015/)

Research output: Contribution to journal › Article › Professional

### **Kaupunki uudistuu**

#### **General information**

Publication status: Published

MoE publication type: D1 Article in a trade journal

Organisations: School of Architecture, Research group: Urban Planning

Contributors: Chudoba, M.

Number of pages: 2

Pages: 12-13

Publication date: 2015

Peer-reviewed: Unknown

#### **Publication information**

Journal: Arkkitehti uutiset

Issue number: 10

ISSN (Print): 0044-8915

Original language: Finnish

URLs:

[http://www.e-julkaisu.fi/SAFA/au\\_arkkitehti uutiset/10\\_2015/](http://www.e-julkaisu.fi/SAFA/au_arkkitehti uutiset/10_2015/)

Research output: Contribution to journal › Article › Professional

## **Key concepts in urban studies: 2nd edition**

### **General information**

Publication status: Published

MoE publication type: C1 Separate scientific books

Organisations: School of Architecture, Research group: Built Environment in Transition, Research group: Urban Planning Theory

Contributors: Gottdiener, M., Budd, L., Lehtovuori, P.

Publication date: 2015

### **Publication information**

Place of publication: London

Publisher: SAGE Publications

ISBN (Print): 9781849201995

Original language: English

### **Publication series**

Name: SAGE Key Concepts series

URLs:

<https://uk.sagepub.com/en-gb/eur/key-concepts-in-urban-studies/book234192>

Research output: Book/Report › Book › Scientific › peer-review

## **Kilpailuista toteutukseen, Arkkitehtitoimisto Lahdelma&Mahlamäki Oy**

### **General information**

Publication status: Published

MoE publication type: F1 Published independent work of art

Organisations: School of Architecture, Research group: Architecture: History, Theory and Innovations

Contributors: Lahdelma, I.

Publication date: 2015

Research output: Artistic and non-textual form › Exhibition › Solo art production

## **Koteja ja kokonaistaideteoksia**

### **General information**

Publication status: Published

MoE publication type: D1 Article in a trade journal

Organisations: School of Architecture, Research group: Urban Planning

Contributors: Chudoba, M.

Number of pages: 3

Pages: 76-78

Publication date: 2015

Peer-reviewed: Unknown

### **Publication information**

Journal: Arkkitehti

Issue number: 3

ISSN (Print): 0783-3660

Original language: Finnish

Research output: Contribution to journal › Article › Professional

## **Meeting of Vernacular and Modern Architecture in Urbino: Giancarlo De Carlo and reading of the context**

### **General information**

Publication status: Published

MoE publication type: B2 Part of a book or another research book

Organisations: School of Architecture, Research group: History of Architecture

Contributors: Koponen, O.

Number of pages: 4

Pages: 26-29

Publication date: 2015

### Host publication information

Title of host publication: Italian Vernadoc 2015 – Amandola : Studying Italia and its architecture. The first 10 VERNADOC-years

Place of publication: Helsinki

Publisher: Suomen ICOMOS, kansanrakentamisen komitea

Editor: Mattila, M.

ISBN (Print): 978-952-67465-9-3

Research output: Chapter in Book/Report/Conference proceeding › Chapter › Scientific

### Muutoksii: Second-generation Immigrants' Movie Workshop in Helsinki

#### General information

Publication status: Published

MoE publication type: A3 Part of a book or another research book

Organisations: School of Architecture, Research group: Built Environment in Transition, Research group: Urban Planning Theory

Contributors: Peipinen, V., Lehtovuori, P.

Number of pages: 5

Pages: 96-100

Publication date: 2015

### Host publication information

Title of host publication: Hopeless Youth!

Publisher: Estonian National Museum

Editors: Martínez, F., Runnel, P.

ISBN (Print): 978-9949-548-10-1

Research output: Chapter in Book/Report/Conference proceeding › Chapter › Scientific › peer-review

### Novel architectural solutions change campus design

The change in the learning paradigm from transmission of information to an active learning model is evident in higher education, too. From solitary to group work, from virtual to learning by doing, all means and methods are possible. Like a lively city, so do our campus premises need to support a greater variety of spaces, as learning is becoming more and more diverse. How does architecture, in different scales and different solutions, enliven the existing university campus?

From holistic to small surgical operations, architectural solutions are presented on three different scales; campus, building, and group of space. Pervasive solutions, in which the whole layout is drastically changed, possess potential in changing essentially human interaction and how the building is used. However, these solutions are slow and expensive to execute. Then again, targeted learning space solutions, created, for example, in an area of formerly supporting spaces, are less expensive but have an impact only in the vicinity or for

a certain group of users. The existing premises of campuses possess a huge potential to be turned into vivid urban centers that support learning and research of the future. Hence, the existing buildings can be seen as platforms for novel architectural solutions, and stages to present universities state-of-the-art education and research.

The outcomes of the research can be applied in different design stages and scales of campus environments. The article aims at evoking readers to ponder on novel and innovative solutions that could be used in campus development, and can be seen as a conversation opener for designers, campus developers and users. The visions presented in this article inspire readers to look upon campuses from a new perspective through innovative examples and spatial solutions.

#### General information

Publication status: Published

MoE publication type: D2 Article in professional manuals or guides or professional information systems or text book material

Organisations: School of Architecture, Research group: Public Buildings

Contributors: Poutanen, J., Peltoniemi, S., Pihlajarinne, N.

Number of pages: 22

Pages: 60-81

Publication date: 2015

### Host publication information

Title of host publication: How to co-create campus?

Place of publication: Tampere

Publisher: Suomen Yliopistokiinteistöt Oy

Editors: Nenonen, S., Kärnä, S., Junnonen, J., Tähtinen, S., Sandström, N., Airo, K., Niemi, O.

ISBN (Print): 978-952-15-3492-8

ISBN (Electronic): 978-952-15-3493-5

URLs:

[http://sykoy.fi/wp-content/uploads/co-create\\_english.pdf](http://sykoy.fi/wp-content/uploads/co-create_english.pdf)

Research output: Chapter in Book/Report/Conference proceeding › Chapter › Professional

### Once palabras para acercarse al vidrio

This paper focuses on one of the substances that has contributed, particularly in the last two centuries, in an ambiguous, complex and elusive way, to the construction of that what Heidegger calls "Frontiers": Glass. It explores how those glass frontiers, thanks to their optical properties (the interaction of light and gaze with glass as a mediator between the two), contribute to trigger a series of situations, phenomena and feelings that exceed the study of the material from a purely scientific point of view. We have chosen to reflect over eleven words (phantasmagoria, estrangement, hierarchy, intimacy, seduction, absorption, silence, time, dematerialization, materialization, invisibility). This discussion is accompanied by a series of pictures and film frames that express how architecture makes use of some of the most ungraspable qualities of this paradoxical material, namely, transparency and reflectance. These properties are sometimes used in a premeditated manner and sometimes unexpectedly. Glass is a medium that expresses or reflects certain human conditions, thus exceeding the mere physical nature of the material.

### General information

Publication status: Published

MoE publication type: A1 Journal article-refereed

Organisations: Universidad Camilo José Cela

Contributors: Rubio Hernandez, R.

Number of pages: 14

Pages: 144-157

Publication date: 2015

Peer-reviewed: Yes

### Publication information

Journal: Zarch

Issue number: 4

ISSN (Print): 2341-0531

Original language: Spanish

Keywords: Frontier, Glass, Light, Gaze, Transparency, Reflectance

URLs:

<http://zarch.unizar.es/index.php/es/numeros/numeros-publicados/numero-4/once-palabras-para-acercarse-al-vidrio>

Research output: Contribution to journal › Article › Scientific › peer-review

### Paluu ojankaivajien valtakuntaan

#### General information

Publication status: Published

MoE publication type: A1 Journal article-refereed

Organisations: School of Architecture, Research group: EDGE

Contributors: Joutsiniemi, A.

Publication date: 2015

Peer-reviewed: Yes

#### Publication information

Journal: Yhdyskuntasuunnittelu

Volume: 53

Issue number: 1

ISSN (Print): 1459-6806



Original language: English

URLs:

<http://www.yss.fi/journal/paluu-ojankaivajien-valtakuntaan-2/>

Research output: Contribution to journal › Editorial › Scientific › peer-review

## Postmodernismi Suomen rakennusperinnössä

### General information

Publication status: Published

MoE publication type: D1 Article in a trade journal

Organisations: School of Architecture, Research group: History of Architecture

Contributors: Koponen, O.

Number of pages: 3

Pages: 72-74

Publication date: 2015

Peer-reviewed: Unknown

### Publication information

Journal: Arkkitehti

Volume: 2015

Issue number: 2/2015

ISSN (Print): 0783-3660

Original language: Finnish

Research output: Contribution to journal › Article › Professional

## Proffana provinssissa

### General information

Publication status: Published

MoE publication type: D1 Article in a trade journal

Organisations: School of Architecture, Research group: Urban Laboratory

Contributors: Hynynen, A.

Number of pages: 2

Pages: 32-33

Publication date: 2015

Peer-reviewed: Unknown

### Publication information

Journal: Arkkitehtiutiset

Issue number: 9

ISSN (Print): 0044-8915

Original language: Finnish

URLs:

[http://www.e-julkaisu.fi/SAFA/au\\_arkkitehtiutiset/9\\_2015/](http://www.e-julkaisu.fi/SAFA/au_arkkitehtiutiset/9_2015/)

Research output: Contribution to journal › Comment/debate › Professional

## Puu-Hubi: Perinteestä uusiin innovaatioihin

Maailmalla on menossa puurakentamisen buumi, jolle ennakoidaan pitkää ikää ja valoisa tulevaisuutta. Kehityksen etulinjassa on saksankielinen Keski-Eurooppa, Ruotsi ja Norja. Myös Kanadassa ja Yhdysvalloissa puurakentamisella on pitkät perinteet ja laajat markkinat. Vahvin muutosajuri puun käytön lisäämiselle on ilmastonmuutos. Suomi on mukana kansainvälisissä sopimuksissa, jotka sitovat meidät hiilidioksidipäästöjen runsaaseen pienentämiseen lähitulevaisuudessa. Mutta vaikka ympäristösopimukset asettavat kovia velvoitteita, ne tarjoavat myös uusia taloudellisia mahdollisuuksia.

Seinäjoen Ammattikorkeakoulun ja Tampereen teknillisen yliopiston yhteistyössä käynnistämä Puu-Hubi-projekti pyrki edistämään eteläpohjalaista puurakentamista. Tavoitteena oli puukerrostalon rakentamisessa vaadittava osaaminen ja tuotetarjonta, sekä näiden myötä kasvava liiketoiminta. Tässä kirjassa esitellään teemoja, joita hankkeen kuluessa kohdattiin, ja jotka tuntuivat tuoreilta. Kirjan tekstit eivät ole ”yhdestä puusta”, vaan ne rönsyävät omia uomiaan kohti yhteistä aihettamme, suomalaisen puurakentamisen uutta tuleamista.

### General information

Publication status: Published

MoE publication type: D4 Published development or research report or study

Organisations: School of Architecture, Research group: Urban Laboratory  
Contributors: Hynynen, A. (ed.), Panu, A. (ed.), Taanila, T. (ed.)  
Number of pages: 107  
Publication date: 2015

#### Publication information

Publisher: Tampereen teknillinen yliopisto. Arkkitehtuurin laitos  
ISBN (Print): 978-952-15-3497-3  
ISBN (Electronic): 978-952-15-3498-0  
Original language: Finnish  
Electronic versions:

puu\_hubi

URLs:

<http://URN.fi/URN:ISBN:978-952-15-3498-0>

#### Bibliographical note

Versio ok 14.12.2015

Research output: Book/Report > Commissioned report > Professional

### Puu-Hubi: Perinteestä uusiin innovaatioihin

#### General information

Publication status: Published

MoE publication type: E1 Popularised article, newspaper article

Organisations: School of Architecture, Research group: Urban Laboratory

Contributors: Panu, A.

Number of pages: 1

Pages: 6

Publication date: 2015

Peer-reviewed: Unknown

#### Publication information

Journal: UCS : Seinäjoen yliopistokeskuksen tiedotuslehti

Issue number: 1

ISSN (Print): 1796-0134

Original language: Finnish

Research output: Contribution to journal > Article > General public

### Puurakentamisesta potkua alueiden ja kaupunkien kehittämiseen

#### General information

Publication status: Published

MoE publication type: D2 Article in professional manuals or guides or professional information systems or text book material

Organisations: School of Architecture, Research group: Urban Laboratory

Contributors: Hynynen, A.

Number of pages: 19

Pages: 75-93

Publication date: 2015

#### Host publication information

Title of host publication: Puu-Hubi. : Perinteestä uusiin innovaatioihin

Publisher: Tampereen teknillinen yliopisto. Arkkitehtuurin laitos

Editors: Hynynen, A., Panu, A., Taanila, T.

ISBN (Print): 978-952-15-3497-3

ISBN (Electronic): 978-952-15-3498-0

URLs:

<http://URN.fi/URN:ISBN:978-952-15-3498-0>

Research output: Chapter in Book/Report/Conference proceeding > Chapter > Professional

### Raitiotien seisakkeet: Yhdyskuntasuunnittelun jatkokurssi A ja B

Vuoden 2014 Yhdyskuntasuunnittelun jatkokurssin aiheena oli Tampereelle toteutettava kaupunkiraitiotie, joka tulee helpottamaan huomattavasti kulkemista Tampereella tulevaisuudessa.

Kurssi oli sisällöltään ja osallistujiltaan epätavanomainen. Osallistujia kurssilla oli useammasta eri tiedekunnasta: Tampereen teknillisen yliopiston arkkitehtipiskelijoita ja liikennesuunnittelun opiskelijoita, Tampereen yliopistolta psykologian sekä sosiologian opiskelijoita.

Kolmiosaisen kurssin painopiste oli urban design-osuudella, muiden ollessa vapaavalintaisia. Suunnittelukohteina poikkitieteellisesti muodostetuilla ryhmillä oli kolme Tampereen raitiotien yleissuunnitelmassa esitettyä seisaketta: Hakametsä, Turtola ja Hallila. Useat osallistujat olivat valinneet myös planning-osuuden, johon koottiin jäsenistö kunkin seisakkeen design-osuuden ryhmistä.

#### General information

Publication status: Published  
MoE publication type: D4 Published development or research report or study  
Organisations: School of Architecture, Research group: Urban Planning  
Contributors: Chudoba, M. (ed.), Rajaniemi, J. (ed.), Virkkala, J. (ed.)  
Number of pages: 74  
Publication date: 2015

#### Publication information

Publisher: Tampere University of Technology, School of Architecture  
ISBN (Print): 978-952-15-3456-0  
ISBN (Electronic): 978-952-15-3457-7  
Original language: Finnish  
Electronic versions:  
raitiotien\_seisakkeet  
URLs:  
<http://URN.fi/URN:ISBN:978-952-15-3457-7>

#### Bibliographical note

Versio ok 14.12.2015  
Research output: Book/Report > Commissioned report > Professional

#### Raitiotien seisakkeet - monialainen suunnitteluprosessi opintojakson aiheena

Urban Planning and Design Advanced Course, co-ordinated by Tampere University of Technology Architecture School, opened up a possibility for the collaboration of two universities in Autumn 2014. The multidisciplinary student groups were given a task: to design a tram stop and its environment in Tampere. A real project was behind the task, giving a concrete motivation for the negotiations.

#### General information

Publication status: Published  
MoE publication type: D3 Professional conference proceedings  
Organisations: School of Architecture, Research group: Urban Planning  
Contributors: Rajaniemi, J., Chudoba, M.  
Number of pages: 6  
Publication date: 2015

#### Host publication information

Title of host publication: Peda-forum 2015 - Strength through collaboration  
Electronic versions:  
Rajaniemi\_Chudoba\_pforum\_txt\_240615  
URLs:  
<http://urn.fi/URN:NBN:fi:tty-201705101355>  
Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Professional

#### Seinäjoen ydinkeskustan olennaiset kehitysvaiheet ja sen 1950 - 70-lukujen rakennusperinnön arvottamisperiaatteita

#### General information

Publication status: Published  
MoE publication type: D4 Published development or research report or study  
Organisations: School of Architecture, Research group: Urban Laboratory  
Contributors: Hirvonen, T.  
Number of pages: 121  
Publication date: 2015

#### Publication information

Place of publication: Tampere  
Publisher: Tampereen teknillinen yliopisto. Arkkitehtuurin laitos  
ISBN (Electronic): 978-952-15-3549-9  
Original language: Finnish  
Electronic versions:  
hirvonen\_seinajoen\_ydinkeskustan\_olennaiset\_kehitysvaiheet  
URLs:  
<http://URN.fi/URN:ISBN:978-952-15-3549-9>

#### **Bibliographical note**

Versio ok 14.12.2015

Research output: Book/Report > Commissioned report > Professional

### **Shared use of research laboratories Changing spatial concepts: A Case Study in a Finnish Biomedical Organization**

#### **General information**

Publication status: Published  
MoE publication type: A4 Article in a conference publication  
Organisations: School of Architecture, Research group: Public Buildings, Department of Civil Engineering  
Contributors: Yläoutinen, J., Peltoniemi, S., Nenonen, S.  
Number of pages: 15  
Pages: 183-197  
Publication date: 2015

#### **Host publication information**

Title of host publication: Conference on Research on Health Care Architecture : ARCH 14 Conference Proceedings  
November 19-21, 2014, Espoo, Finland  
Place of publication: Helsinki  
ISBN (Electronic): 978-952-60-6201-3

#### **Publication series**

Name: Aalto University publication series ART + DESIGN + ARCHITECTURE, 6/2015  
Publisher: Aalto University  
ISSN (Print): 1799-4861  
ISSN (Electronic): 1799-4853  
Keywords: healthcare architecture, hospital architecture, care facilities, hospital environments  
URLs:  
<http://urn.fi/URN:ISBN:978-952-60-6201-3>

#### **Bibliographical note**

ORG=ark,0.5

ORG=rak,0.5

Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific > peer-review

### **Stirring the Construction Project Management with Co-creation and Continuous Improvement**

Abstract Gathering information that is capable to explain customers' needs is usually seen as a quite straightforward part of the traditional construction process: a customer should be able to tell all relevant needs in the first stage so that a building could be designed and built according to the gained information. But the process is lacking of service abilities if a customer wants to modify the given information due to a change in circumstances, albeit such a change is easily caused due turbulent economic situations and long spans in real-estate development projects. Hence the customer perspective regarding the construction management (CM) process should be accommodated better. In this paper, the case studies of the four premises improvement projects are reported upon, where the CM process was altered to include and apply the concepts of continuous improvement and co-creation. The process documentation covered the impacts of the case project on the usability of the premises, the indoor climate conditions (carbon dioxide and temperature) metering, the time lapse cameras and the on-line user feedback system. The documentation consists of the minutes of the meetings, the financial reporting and the time tables. Both the processes and the results of the projects are analysed. Based on the key findings, some suggestions are put forth upon how to improve the CM process to better serve customer interests and quality improvement in the future.

#### **General information**

Publication status: Published

MoE publication type: A1 Journal article-refereed

Organisations: Department of Civil Engineering, Research group: Digitalization in the real estate and construction sector, School of Architecture

Contributors: Savolainen, J., Kähkönen, K., Niemi, O., Poutanen, J., Varis, E.  
Number of pages: 8  
Pages: 64-71  
Publication date: 2015  
Peer-reviewed: Yes

#### **Publication information**

Journal: Procedia Economics and Finance

Volume: 21

ISSN (Print): 2212-5671

Original language: English

Keywords: Co-creation, construction management, continuous improvement, customer relations management, quality management

DOIs:

10.1016/S2212-5671(15)00151-3

#### **Bibliographical note**

ORG=rak,1

ORG=ark,0

Source: RIS

Source ID: urn:76EF98A938A43DE456AFD5111BF4116C

Research output: Contribution to journal > Article > Scientific > peer-review

#### **Strategic planning and epistemology of change: Probing the fitness of urban and planning systems with resilient spatial strategies**

The aim of this paper is to question the fitness of our state-of-the-art urban planning and urban systems to adapt to continuous changes and disturbances in operating environment. We argue that in an attempt to help cities adapt to uncertain futures, strategic planning should be better informed by the epistemology of complex adaptive systems and better recognise recursive emergent processes between urban metabolism and morphology.

#### **General information**

Publication status: Published

MoE publication type: A4 Article in a conference publication

Organisations: School of Architecture, Research group: EDGE

Contributors: Rantanen, A., Joutsiniemi, A.

Number of pages: 12

Pages: 336-347

Publication date: 2015

#### **Host publication information**

Title of host publication: Sustainable Futures in a Changing Climate : Proceedings of the Conference "Sustainable Futures in a Changing Climate", 11–12 June 2014, Helsinki, Finland

Volume: 2/2015

Place of publication: Turku

Publisher: Finland Futures Research Centre, University of Turku

Editors: Hatakka, A., Vehmas, J.

ISBN (Print): 978-952-249-303-3

#### **Publication series**

Name: FFRC eBOOK 2/2015

Publisher: Finland Futures Research Centre, University of Turku

ISSN (Electronic): 1797-1322

Keywords: Strategic planning, Resilience, Complex adaptive system

URLs:

[http://www.researchgate.net/profile/Jari\\_Kaivo-](http://www.researchgate.net/profile/Jari_Kaivo-oja/publication/280941248_Assessing_Sustainability_of_Economic_Growth_with_Sustainability_Window/links/55cd87ae08aeeaab209b543e.pdf)

[oja/publication/280941248\\_Assessing\\_Sustainability\\_of\\_Economic\\_Growth\\_with\\_Sustainability\\_Window/links/55cd87ae08aeeaab209b543e.pdf](http://www.researchgate.net/profile/Jari_Kaivo-oja/publication/280941248_Assessing_Sustainability_of_Economic_Growth_with_Sustainability_Window/links/55cd87ae08aeeaab209b543e.pdf)

Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific > peer-review

#### **Sustainable Design Studio 2014**

The City of Tampere is experiencing a great regeneration boom. Several central areas are under redevelopment. The Hakametsä area is one of them. The ice hockey hall of Hakametsä and the surrounding commercial areas will be redeveloped in the near future. The identity and integrated sustainable urban solutions unifying the entire Hakametsä area is becoming a key issue.

The Sustainable Design Studio 2014 looked at the opportunities related to sustainable redevelopment of the new city district. In particular, the focus was in the intersection of Hervannan valtaväylä and Sammon valtatie. Currently this intersection divides the area in separate and isolated sections with very scattered street scape and difficult accessibility for light-traffic. The restructuring of the entire city structure could offer several opportunities for more sustainable city district in connection to the new tram line.

The task for the students had to two parts with different objectives and urban scales. The first part included a group work analysis on the Hakametsä area and designing a new urban strategy for a sustainable city district. The lack of overall scheme for the area motivated the students to look at the intersection area as the point for connecting the four sectors divided by Hervannan valtaväylä and Sammon valtatie.

The second individual part of the assignment consisted of designing additional floors to an existing residential building next to the Hakametsä ice hockey rink. The work aimed at creating appealing typological solutions for attractive in-fill architecture thus increasing the opportunities for densification of the 70s residential areas at large. The starting point for the design was the structural system developed in KORKO research project of the Tampere University of Technology. The research project delivered a concept for a prefabricated steel structure allowing fast and affordable assembly of prefabricated wooden housing modules. The objective of the course was to connect university education and research in a mutually benefiting way that is motivating for the students.

The results of the studio provided a comprehensive overview of different approaches to reshape the urban plan for more sustainable city structure. The need for the new character of Hervannan valtaväylä became evident. Should the road be a main artery focusing on delivering the traffic flows, or, is it part of integrated city structure potentially lowering the speeds of vehicles and calling for improved lighttraffic conditions? The students' works opened up a number of alternative perspectives – including engineering studies on sustainability issues. The Hakametsä area is a great potential for sustainable urban densification within the proximity of the city center, yet with a unique character making it a distinct and identifiable place.

#### **General information**

Publication status: Published

MoE publication type: D4 Published development or research report or study

Organisations: Department of Civil Engineering, School of Architecture

Contributors: Edelman, H. (ed.), Härkönen, K. (ed.)

Number of pages: 79

Publication date: 2015

#### **Publication information**

Publisher: Tampere University of Technology. School of Architecture

ISBN (Print): 978-952-15-3473-7

ISBN (Electronic): 978-952-15-3474-4

Original language: English

Electronic versions:

sustainable\_design\_studio\_2014

URLs:

<http://URN.fi/URN:ISBN:978-952-15-3474-4>

#### **Bibliographical note**

ORG=rak,0.25

ORG=ark,0.75

Research output: Book/Report › Commissioned report › Professional

### **Tammerkoski ja Hämeenkatu Tampereen arkkitehtonisen identiteetin ankkureina**

#### **General information**

Publication status: Published

MoE publication type: D2 Article in professional manuals or guides or professional information systems or text book material

Organisations: School of Architecture

Contributors: Koponen, O.

Number of pages: 8

Pages: 35-42

Publication date: 2015

#### **Host publication information**

Title of host publication: Tampereen tarina : Teollisuuden synnyttämä kaupunki harjujen ja järvien solmukohdassa

Volume: Julkaisuja 5/2015

Place of publication: Kaupunkiympäristön kehittäminen  
Publisher: Tampereen kaupunki  
Editor: Hautamäki, R.  
ISBN (Print): 978-951-609-783-4

#### **Publication series**

Name: Tampereen kaupunki/Kaupunkiympäristön kehittäminen  
Publisher: Tampereen kaupunki  
Volume: 5/2015  
ISSN (Print): 1797-321X  
URLs:

[http://www.tampere.fi/liitteet/t/bV6J59ALc/Tampereen\\_tarina.pdf](http://www.tampere.fi/liitteet/t/bV6J59ALc/Tampereen_tarina.pdf)

Research output: Chapter in Book/Report/Conference proceeding › Chapter › Professional

#### **Taskinen yksissä kansissa**

##### **General information**

Publication status: Published  
MoE publication type: D1 Article in a trade journal  
Organisations: School of Architecture, Research group: History of Architecture  
Contributors: Passinmäki, P.  
Number of pages: 2  
Pages: 89-90  
Publication date: 2015  
Peer-reviewed: Unknown

##### **Publication information**

Journal: Arkkitehti  
Issue number: 2  
ISSN (Print): 0783-3660  
Original language: Finnish  
Research output: Contribution to journal › Article › Professional

#### **Temporary Uses Producing Difference in Contemporary Urbanism**

##### **General information**

Publication status: Published  
MoE publication type: D3 Professional conference proceedings  
Organisations: School of Architecture, Research group: Built Environment in Transition, Research group: Urban Planning Theory, University of Turku  
Contributors: Lehtovuori, P., Ruoppila, S.  
Number of pages: 18  
Publication date: 2015

##### **Host publication information**

Title of host publication: Transience and permanence in urban development workshop, Sheffield 14.--15.1.2015  
Place of publication: Sheffield, UK  
Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Professional

#### **Unlikely similar – Forking paths and path-dependency in transportation studies of Helsinki and Melbourne**

##### **General information**

Publication status: Published  
MoE publication type: A4 Article in a conference publication  
Organisations: School of Architecture, Research group: EDGE, Curtin University  
Contributors: Joutsiniemi, A., Curtis, C.  
Publication date: 2015

##### **Host publication information**

Title of host publication: Book of Proceedings : 29th Annual AESOP 2015 Congress, Definite Space – Fuzzy Responsibility  
ISBN (Electronic): 978-80-01-05782-7  
URLs:  
<http://www.aesop2015.eu/>

## Uusia tuulia Euroopasta

### General information

Publication status: Published

MoE publication type: D2 Article in professional manuals or guides or professional information systems or text book material

Organisations: School of Architecture, Research group: Built Environment in Transition, Research group: Urban Planning Theory

Contributors: Lehtovuori, P.

Number of pages: 18

Pages: 42-59

Publication date: 2015

### Host publication information

Title of host publication: Asukkaan ehdoilla : moninaisuutta asumamuotoihin

Place of publication: Helsinki

Publisher: Rakennustieto Oy

ISBN (Print): 978-952-267-100-4

URLs:

<https://www.rakennustietokauppa.fi/asukkaan-ehdoilla-moninaisuutta-asumamuotoihin-/112609/dp?nosto=recommended>

Research output: Chapter in Book/Report/Conference proceeding › Chapter › Professional

## VASARA for MapInfo

### General information

Publication status: Published

MoE publication type: I2 ICT software

Organisations: School of Architecture, Research group: EDGE

Contributors: Joutsiniemi, A., Vanhatalo, J.

Publication date: 2015

Media of output: Other

Research output: Artistic and non-textual form › Software › Scientific

## What makes a Place? Claiming Spaces for Informal and Social Learning

How to redesign an under-used secondary space into a lively social and informal learning space? Here, three case studies are compared to shed on light what spatial elements create a Place for learning. At many university premises informal learning spaces are often limited to libraries and social interactions to cafés. However, secondary spaces, such as halls and corridors, which are located in popular areas on campuses, have great potential when redesigned into novel social and informal learning spaces, which increases the efficiency of the spaces, too. The cases differ in design and development manners: two novel learning spaces created in a lobby, a renovation of a campus café and co-created learning spaces in an academic library. The cases offer practical implications and elements on how to create new learning spaces successfully. Common for all these cases is the positive feedback produced by a pleasant, uplifted environment. These realized cases suggest that relatively small, acupuncture-like changes to existing spaces can create a relatively big impact.

### General information

Publication status: Published

MoE publication type: D2 Article in professional manuals or guides or professional information systems or text book material

Organisations: Research group: Public Buildings, School of Architecture

Contributors: Poutanen, J.

Number of pages: 18

Pages: 248-265

Publication date: 2015

### Host publication information

Title of host publication: How to Co-Create Campus?

Place of publication: Tampere

Publisher: Suomen Yliopistokiinteistöt Oy

ISBN (Print): 978-952-15-3492-8

ISBN (Electronic): 978-952-15-3493-5

URLs:



### **Jaetut tilat joustavan asumisen mahdollistajana**

The changing lifestyles and ways of living, as well as demographic changes require flexibility in housing. This thesis deals with flexible housing that is enabled through the possibilities of shared spaces. Shared space is a common space shared by two or more dwellings, but which does not necessarily have to be used simultaneously. The potential that lies in shared spaces have not really taken into consideration on the field of study or practice. The research of flexible housing has mainly focused on private homes and their internal flexibility while the concept of sharing spaces hasn't very strongly come up. In realized projects these kind of spaces have been so far used mainly in housing that is designed only for special user groups. However, there are many various ways to benefit from the use of shared spaces. Therefore, the subject is worth looking into when studying flexible housing.

Flexible housing and its implementation methods are mapped by studying the related research literature. The base for the development of the concepts is formed by studying and analyzing the features and benefits of shared spaces. The formed menu of the features is a tool that can be used in flexible housing projects, that wish to take advantage of shared facilities. Five design concepts are formed by combining the features of shared spaces in various ways. For each concept a plan application will also be implemented. The flexibility of the designs is displayed with residential stories, that show the relation between the design and changes in people's life situations and needs. By means of design applications and residential stories it is proved that shared spaces are one way to achieve flexible housing and respond to people's changing needs and lifestyles.

#### **General information**

Publication status: Published

MoE publication type: G2 Master's thesis, polytechnic Master's thesis

Organisations: School of Architecture

Contributors: Iida, H.

Number of pages: 83

Publication date: 8 Oct 2014

#### **Publication information**

Publisher: Tampereen teknillinen yliopisto. Arkkitehtuurin laitos

ISBN (Print): 978-952-15-3348-8

ISBN (Electronic): 978-952-15-3349-5

Original language: Finnish

#### **Publication series**

Name: Tampereen teknillinen yliopisto. Arkkitehtuurin laitos. Asuntosuunnittelu. Julkaisu

Volume: 15

ISSN (Print): 2242-4598

Electronic versions:

hedberg

URLs:

<http://URN.fi/URN:ISBN:978-952-15-3349-5>

Research output: Book/Report › Master's Thesis › Scientific

### **Asemanseudut solmukohtina: Kehittämisen pullonkauloja ja mahdollisuuksia**

#### **General information**

Publication status: Published

MoE publication type: D3 Professional conference proceedings

Organisations: School of Architecture, Research group: Urban Laboratory, University of Tampere

Contributors: Hynynen, A., Kolehmainen, J.

Publication date: 23 Sep 2014

#### **Host publication information**

Title of host publication: XVI Kaupunkifoorumi Hämeenlinnassa 23.-24.9.2014

Publisher: Työ- ja elinkeinoministeriö

URLs:

<http://www.tem.fi/kaupunkifoorum2014>

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Professional

1974 la production de l'espace : Henri Lefebvre (1974). La production de l'espace : Paris: Editions Anthropos. 485 p

#### General information

Publication status: Published  
MoE publication type: B1 Article in a scientific magazine  
Organisations: School of Architecture  
Contributors: Lehtovuori, P.  
Number of pages: 3  
Pages: 77-79  
Publication date: 2014  
Peer-reviewed: No

#### Publication information

Journal: Yhdyskuntasuunnittelu  
Volume: 52  
Issue number: 2  
ISSN (Print): 1459-6806  
Original language: Finnish

#### Bibliographical note

Contribution: organisation=ark,FACT1=1<br/>Portfolio EDEND: 2015-02-20  
Source: researchoutputwizard  
Source ID: 909  
Research output: Contribution to journal › Article › Scientific

### A Deep Organic Re-reading of Alvar Aalto's Design Approach

#### General information

Publication status: Published  
MoE publication type: A4 Article in a conference publication  
Organisations: School of Architecture  
Contributors: Hynynen, A.  
Number of pages: 12  
Pages: 28-39  
Publication date: 2014

#### Host publication information

Title of host publication: Proceedings of the 6th Annual Architectural Research Symposium in Finland 2014: Designing and Planning the Built Environment for Human Well-Being, October 23rd to 25th in Oulu, Finland : The 6th Annual Symposium of Architectural Research 2014 and The Annual NAAR Symposium 2014, October 23-25, 2014, Oulu, Finland  
ISBN (Print): 978-952-62-0635-6

#### Publication series

Name: University of Oulu, Department of Architecture, Publications  
No.: A61  
ISSN (Print): 0357-8704  
URLs:

<http://ojs.tsv.fi/index.php/atut/article/view/45276>

<http://ojs.tsv.fi/index.php/atut/>

#### Bibliographical note

Contribution: organisation=ark,FACT1=1<br/>Portfolio EDEND: 2014-12-30  
Source: researchoutputwizard  
Source ID: 528  
Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

### Arkkitehtuuri polttopisteessä

#### General information

Publication status: Published  
MoE publication type: D1 Article in a trade journal  
Organisations: School of Architecture  
Contributors: Lehtovuori, P.  
Pages: 3-3  
Publication date: 2014

Peer-reviewed: Unknown

#### Publication information

Journal: Arkkitehtiutiset  
Volume: 66  
Issue number: 10  
ISSN (Print): 0044-8915  
Original language: Finnish  
URLs:  
<http://au.safa.fi>

#### Bibliographical note

Contribution: organisation=ark,FACT1=1<br/>Portfolio EDEND: 2015-01-10  
Source: researchoutputwizard  
Source ID: 910  
Research output: Contribution to journal › Article › Professional

### Asemanseudut kaupunkikehittämisen keskiössä, Loppuraportti, MAL-verkoston työpaja 14.5.2014, Scandic Tampere Station

#### General information

Publication status: Published  
MoE publication type: D4 Published development or research report or study  
Organisations: School of Architecture  
Contributors: Hynynen, A., Kolehmainen, J.  
Number of pages: 14  
Publication date: 2014

#### Publication information

Publisher: Tampereen teknillinen yliopisto; Tampereen yliopisto  
Original language: Finnish  
URLs:  
[http://www.mal-verkosto.fi/filebank/860-MAL\\_asepanseututyopaja\\_loppuraportti\\_30-05-2014-final.pdf](http://www.mal-verkosto.fi/filebank/860-MAL_asepanseututyopaja_loppuraportti_30-05-2014-final.pdf)

#### Bibliographical note

Contribution: organisation=ark,FACT1=1<br/>Portfolio EDEND: 2015-01-12  
Source: researchoutputwizard  
Source ID: 530  
Research output: Book/Report › Commissioned report › Professional

### Asumisen katselmus : Housing Fair by the Lakeside

#### General information

Publication status: Published  
MoE publication type: D1 Article in a trade journal  
Organisations: School of Architecture  
Contributors: Lehtovuori, P.  
Number of pages: 3  
Pages: 79-81  
Publication date: 2014  
Peer-reviewed: Unknown

#### Publication information

Journal: Arkkitehti  
Issue number: 4  
ISSN (Print): 0783-3660  
Original language: English

#### Bibliographical note

Contribution: organisation=ark,FACT1=1<br/>Portfolio EDEND: 2015-01-09  
Source: researchoutputwizard  
Source ID: 911  
Research output: Contribution to journal › Article › Professional

## **ATUT Proceedings, 5th Annual Symposium of Architectural Research, Architecture and Resilience, August 28-30, 2013 Tampere, Finland**

Globally, a scientific conference that focuses specifically on architectural research is a rarity. Finland has been a pioneer in foregrounding architects' knowledge and their ways of knowing. The Annual Symposium of Architectural Research, organized by Aalto University, Tampere University of Technology, University of Oulu and the Finnish Association of Architects, has established itself as a key forum of knowledge exchange, debate and brainstorming. In August 2013, the 5th Symposium was organized in Tampere. The theme was "Architecture and Resilience", in Finnish "Notkea arkkitehtuuri". The Symposium was successful, bringing together 45 papers and presentations by scholars in architecture, urban design, planning and urban studies from around the world. This Proceedings Book presents a representative collection of the conference papers, peer-reviewed by the Scientific Committee. Its chapters mirror the tracks of the conference. When preparing the Symposium, we realized that the theme of resilience is very topical in architecture and urbanism. Clearly, the constantly changing urbanity warrants a revision of theories, methods, design applications and professional cultures. A systemic transition of our society and space is underway. Starting from these broad notions, we collectively engaged in multiple discussions to find out why resilience is important, how to study it, and what in our discourse is meant by "resilience" in the first place. The participants explored the current state of architecture and urbanism and their potential to shape the future. The complex and relational nature of this potential became evident. How should we tackle the complex, interlinked and inter-scalar social, spatial, natural and economic networks in constant flux? How to operationalize the links between architecture and the resilience of urban systems? What are the exemplary cases and projects? The papers by researchers and practitioners in architecture, urban design, planning, geography, social sciences, ecology and other fields approached these questions in various ways: from history to contemporary and future challenges, from the role of architects to urban evolution and permanence in change.

### **General information**

Publication status: Published

MoE publication type: C2 Edited books

Organisations: School of Architecture

Contributors: Chudoba, M. (ed.), Joachimiak, M. (ed.), Laak, M. (ed.), Lehtovuori, P. (ed.), Partanen, J. (ed.), Rantanen, A. (ed.), Siter, N. (ed.)

Publication date: 2014

### **Publication information**

Place of publication: Tampere

Publisher: Tampere University of Technology, School of Architecture

ISBN (Print): 978-952-15-3108-8

ISBN (Electronic): 978-952-15-3109-5

Original language: English

Electronic versions:

atut2013\_proceedings.pdf

URLs:

<http://urn.fi/URN:ISBN:978-952-15-3109-5>

### **Bibliographical note**

Contribution: organisation=ark,FACT1=1<br/>Portfolio EDEND: 2015-01-26<br/>Publisher name: Tampere University of Technology, School of Architecture

Source: researchoutputwizard

Source ID: 233

Research output: Book/Report › Anthology › Scientific › peer-review

## **BDR/ School Building, School of Architecture: Joensuu Primary School**

### **General information**

Publication status: Published

MoE publication type: F1 Published independent work of art

Organisations: School of Architecture, Research group: Architecture: History, Theory and Innovations

Contributors: Lahdelma, I.

Publication date: 2014

Research output: Artistic and non-textual form › Architecture › Solo art production › peer-review

## **Betonipinnan kolmas ulottuvuus : TTY:n Arkkitehtuurin laitoksen betonistudio 2013**

### **General information**

Publication status: Published

MoE publication type: D1 Article in a trade journal

Organisations: School of Architecture  
Contributors: Pesonen, M.  
Number of pages: 6  
Pages: 72-77  
Publication date: 2014  
Peer-reviewed: Unknown

#### Publication information

Journal: Betoni  
Issue number: 2  
ISSN (Print): 1235-2136  
Original language: Finnish  
URLs:  
<http://www.betoni.com/betoni-lehti/arkisto>

#### Bibliographical note

Contribution: organisation=ark,FACT1=1<br/>Portfolio EDEND: 2014-12-30<br/>Publisher name: Betoniteollisuus ry  
Source: researchoutputwizard  
Source ID: 1269  
Research output: Contribution to journal > Article > Professional

#### Children and youth transport in different urban morphological types

As demonstrated in many earlier studies, the qualities of physical environment have great impacts on physical activity behavior. However, studying individual built environmental variables often produces contradictory effects between studies. To overcome this, we composed multivariate environmental types using principal component analysis that take notice of the inter-correlations between the physical environmental variables. To get a realistic view of the places children and adolescents visit in their daily life, we used mapping methodology where children themselves defined their important places. Based on 16 built environmental variables, six built environmental types were composed around these places.

We found that walking and cycling was most prominent in residential environments and least common in (central) business districts. Commercial environments as well as green environments had the highest proportions of car use. Most places, in general, were visited with friends, but most typically, commercial environments and (central) business districts were reached in the company of friends. Relatively many places were visited alone in residential areas.

#### General information

Publication status: Published  
MoE publication type: A4 Article in a conference publication  
Organisations: School of Architecture  
Contributors: Broberg, A., Hynynen, A., Sarjala, S.  
Number of pages: 19  
Pages: 1-19  
Publication date: 2014

#### Host publication information

Title of host publication: WSTLUR 2014 Proceedings. 2014 World Symposium on Transport and Land Use Research, June 24-27, 2014, Delft, the Netherlands  
Publisher: World Society for Transport and Land Use Research  
URLs:  
[http://www.wstlur.org/symposium/2014/presentations/Broberg\\_Hynynen\\_Sarjala\\_WSTLUR-Delft\\_30112013.pdf](http://www.wstlur.org/symposium/2014/presentations/Broberg_Hynynen_Sarjala_WSTLUR-Delft_30112013.pdf)  
<https://sites.google.com/a/umn.edu/wstlur-2014-proceedings/>

#### Bibliographical note

Contribution: organisation=ark,FACT1=1<br/>Portfolio EDEND: 2015-01-10<br/>Publisher name: World Society for Transport and Land Use Research  
Source: researchoutputwizard  
Source ID: 195  
Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific > peer-review

#### City of Boulevards or City of Malls? Urban Transport Infrastructure Retrofits Are Urban Landscape in Helsinki and Tampere

#### General information

Publication status: Published  
MoE publication type: D1 Article in a trade journal

Organisations: School of Architecture  
Contributors: Hämäläinen, T., Lehtovuori, P.  
Pages: 36-41  
Publication date: 2014  
Peer-reviewed: Unknown

#### Publication information

Journal: Project Baltia, Archive  
Issue number: 22  
Original language: English  
URLs:  
<http://projectbaltia.com/archive-en/7056?lang=en>

#### Bibliographical note

Contribution: organisation=ark,FACT1=1<br/>Portfolio EDEND: 2015-01-10  
Source: researchoutputwizard  
Source ID: 405  
Research output: Contribution to journal › Article › Professional

### Designing Cities, Planning for People :

#### General information

Publication status: Published  
MoE publication type: A4 Article in a conference publication  
Organisations: School of Architecture  
Contributors: Chudoba, M.  
Number of pages: 10  
Pages: 76-85  
Publication date: 2014

#### Host publication information

Title of host publication: Proceedings of the 6th Annual Architectural Research Symposium in Finland 2014: Designing and Planning the Built Environment for Human Well-Being, October 23rd to 25th 2014 in Oulu : The 6th Annual Symposium of Architectural Research 2014 and The Annual NAAR Symposium 2014, October 23-25, 2014, Oulu, Finland  
ISBN (Print): 978-952-62-0635-6

#### Publication series

Name: University of Oulu, Department of Architecture, Publications  
No.: A61  
ISSN (Print): 0357-8704  
URLs:  
<http://ojs.tsv.fi/index.php/atut/issue/view/3140>  
<http://ojs.tsv.fi/index.php/atut/>

#### Bibliographical note

Contribution: organisation=ark,FACT1=1<br/>Portfolio EDEND: 2015-01-10  
Source: researchoutputwizard  
Source ID: 231  
Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

### Digitaalista ja elähtänyttä

#### General information

Publication status: Published  
MoE publication type: A1 Journal article-refereed  
Organisations: School of Architecture, Research group: EDGE  
Contributors: Joutsiniemi, A.  
Publication date: 2014  
Peer-reviewed: Yes

#### Publication information

Journal: Yhdyskuntasuunnittelu  
Volume: 52  
Issue number: 4

ISSN (Print): 1459-6806

Original language: Finnish

URLs:

<http://www.yss.fi/journal/digitaalista-ja-elahtanytta/>

Research output: Contribution to journal › Editorial › Scientific › peer-review

## **Eliel Saarinen ja korkean rakentamisen ristiriita**

### **General information**

Publication status: Published

MoE publication type: A1 Journal article-refereed

Organisations: School of Architecture

Contributors: Chudoba, M.

Number of pages: 16

Pages: 13-28

Publication date: 2014

Peer-reviewed: Yes

### **Publication information**

Journal: Yhdyskuntasuunnittelu

Volume: 52

Issue number: 1

ISSN (Print): 1459-6806

Original language: Finnish

### **Bibliographical note**

Contribution: organisation=ark,FACT1=1<br/>Portfolio EDEND: 2014-12-30

Source: researchoutputwizard

Source ID: 232

Research output: Contribution to journal › Article › Scientific › peer-review

## **Empathy in Architecture**

### **General information**

Publication status: Published

MoE publication type: B3 Non-refereed article in conference proceedings

Organisations: School of Architecture

Contributors: Hedman, M.

Number of pages: 2

Publication date: 2014

### **Host publication information**

Title of host publication: Landscape Accessibility, Landscape Accessibility International Workshop - Milazzo 2014

Publisher: ARACNE

Editor: Morabito, V.

ISBN (Print): 978-88-548-7683-5

### **Publication series**

Name: Intelligent landscape

No.: 3

### **Bibliographical note**

Contribution: organisation=ark,FACT1=1<br/>Portfolio EDEND: 2014-12-30<br/>Publisher name: ARACNE

Source: researchoutputwizard

Source ID: 420

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific

## **Finnish Building Stock: Does Urban Shrinkage Equal Demolition?**

### **General information**

Publication status: Published

MoE publication type: A4 Article in a conference publication

Organisations: School of Architecture, Research group: Built Environment in Transition

Contributors: Huuhka, S.

Number of pages: 156  
Pages: 64-71  
Publication date: 2014

#### Host publication information

Title of host publication: ATUT Proceedings, 5th Annual Symposium of Architectural Research, ARCHITECTURE AND RESILIENCE, August 28-30, 2013 Tampere, Finland  
Place of publication: Tampere  
Publisher: Tampere University of Technology, School of Architecture  
Editors: Chudoba, M., Joachimiak, M., Laak, M., Lehtovuori, P., Partanen, J., Rantanen, A., Siter, N.  
ISBN (Print): 978-952-15-3109-5  
ISBN (Electronic): 978-952-15-3109-5  
URLs:  
<http://urn.fi/URN:ISBN:978-952-15-3109-5>

#### Bibliographical note

Contribution: organisation=ark,FACT1=1<br/>Portfolio EDEND: 2015-01-26<br/>Publisher name: Tampere University of Technology, School of Architecture  
Source: researchoutputwizard  
Source ID: 521  
Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific > peer-review

### Fraktaalit alueellisuuden perustaa murentamassa

#### General information

Publication status: Published  
MoE publication type: A1 Journal article-refereed  
Organisations: School of Architecture, Research group: EDGE  
Contributors: Joutsiniemi, A.  
Publication date: 2014  
Peer-reviewed: Yes

#### Publication information

Journal: Yhdyskuntasuunnittelu  
Volume: 52  
Issue number: 4  
ISSN (Print): 1459-6806  
Original language: Finnish  
URLs:  
<http://www.yss.fi/journal/fraktaalit-alueellisuuden-perustaa-murentamassa/>  
Research output: Contribution to journal > Literature review > Scientific > peer-review

### Future-oriented building stock studies and the significance of values: addressing demolition behaviour with the Delphi method

#### General information

Publication status: Published  
MoE publication type: A4 Article in a conference publication  
Organisations: School of Architecture, Research group: Built Environment in Transition  
Contributors: Huuhka, S.  
Number of pages: 8  
Pages: 56-63  
Publication date: 2014

#### Host publication information

Title of host publication: Proceedings of the 1st International Conference on Ageing of Materials & Structures, AMS'14, Delft, The Netherlands, 26-28 May 2014  
Publisher: Delft University of Technology, DCMat Ageing Centre  
Editors: van Breugel, K., Koenders, E.  
ISBN (Print): 978-94-6186-314-0

#### Bibliographical note

Contribution: organisation=ark,FACT1=1<br/>Portfolio EDEND: 2014-12-30<br/>Publisher name: Delft University of Technology, DCMat Ageing Centre  
Source: researchoutputwizard



Source ID: 522

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

## HIMMELI for comprehensive transport planning and development planning

### General information

Publication status: Published

MoE publication type: B3 Non-refereed article in conference proceedings

Organisations: School of Architecture

Contributors: Iltanen, S., Joutsiniemi, A., Kanninen, V., Mäntysalo, R., Syrman, S.

Number of pages: 6

Pages: 47-52

Publication date: 2014

### Host publication information

Title of host publication: COST Action TU1002 - Assessing Usability of Accessibility Instruments

Publisher: COST Office

Editors: Brömmelstroet, M. T., Silva, C., Bertolini, L.

ISBN (Print): 978-90-9028212-1

URLs:

<http://www.accessibilityplanning.eu/wp-content/uploads/2014/05/COST-REPORT-II.pdf>

<http://www.accessibilityplanning.eu/reports/report-2/>

### Bibliographical note

Contribution: organisation=ark,FACT1=1<br/>Portfolio EDEND: 2015-01-09

Source: researchoutputwizard

Source ID: 535

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific

## Huippupuhujia Arkkitehtuuriviikolla

### General information

Publication status: Published

MoE publication type: D1 Article in a trade journal

Organisations: School of Architecture

Contributors: Lehtovuori, P.

Number of pages: 2

Pages: 16-17

Publication date: 2014

Peer-reviewed: Unknown

### Publication information

Journal: Arkkitehtiutiset

Issue number: 11

ISSN (Print): 0044-8915

Original language: Finnish

### Bibliographical note

Contribution: organisation=ark,FACT1=1<br/>Portfolio EDEND: 2014-12-30

Source: researchoutputwizard

Source ID: 912

Research output: Contribution to journal › Article › Professional

## Interactive and Engaging Social Learning Spaces for Collaboration

### General information

Publication status: Published

MoE publication type: A4 Article in a conference publication

Organisations: School of Architecture

Contributors: Poutanen, J., Syvänen, A., Frydenberg, M., Turunen, M., Walton, G.

Number of pages: 6

Pages: 1429-1434

Publication date: 2014

### Host publication information

Title of host publication: Proceedings of World Conference on Educational Multimedia, Hypermedia and Telecommunications; EdMedia 2014, World conference on educational Media and Technology, Dates: June 23 - 26, 2014, Location: Tampere, Finland  
Publisher: Association for the Advancement of Computing in Education (AACE)  
ISBN (Electronic): 978-1-939797-08-7

### Publication series

Name: World Conference on Educational Multimedia, Hypermedia and Telecommunications  
Volume: 2014  
No.: 1  
URLs:  
<http://www.editlib.org./p/147672/>  
<http://www.editlib.org./j/EDMEDIA/v/2014/n/1/>

### Bibliographical note

Contribution: organisation=ark,FACT1=1<br/>Portfolio EDEND: 2015-01-11<br/>Publisher name: Association for the Advancement of Computing in Education (AACE)  
Source: researchoutputwizard  
Source ID: 1299  
Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific > peer-review

### Kastellin monitoimitalo Oulu, Prointerior 4/2014

#### General information

Publication status: Published  
MoE publication type: F1 Published independent work of art  
Organisations: School of Architecture, Research group: Architecture: History, Theory and Innovations  
Contributors: Lahdelma, I.  
Publication date: 2014  
Research output: Artistic and non-textual form > Architecture > Solo art production

### Kastellin monitoimitalo Oulu / Projektiutiset 4/2014

#### General information

Publication status: Published  
MoE publication type: F1 Published independent work of art  
Organisations: School of Architecture, Research group: Architecture: History, Theory and Innovations  
Contributors: Lahdelma, I.  
Publication date: 2014  
Research output: Artistic and non-textual form > Architecture > Solo art production

### Kehitysvammaisten asuminen uudistuu

#### General information

Publication status: Published  
MoE publication type: D1 Article in a trade journal  
Organisations: School of Architecture  
Contributors: Helamaa, A.  
Number of pages: 3  
Pages: 4-6  
Publication date: 2014  
Peer-reviewed: Unknown

#### Publication information

Journal: Araviesti  
Issue number: 2  
ISSN (Print): 1457-8093  
Original language: Finnish  
URLs:  
<http://www.ara.fi>

#### Bibliographical note

Contribution: organisation=ark,FACT1=1<br/>Portfolio EDEND: 2014-12-30

Source: researchoutputwizard  
Source ID: 446  
Research output: Contribution to journal › Article › Professional

## Kohti kestäväää Skanssia

### General information

Publication status: Published  
MoE publication type: D4 Published development or research report or study  
Organisations: School of Architecture  
Contributors: Laak, M. (ed.), Del Barrio Batista, J. (ed.)  
Number of pages: 87  
Publication date: 2014

### Publication information

Publisher: Tampereen teknillinen yliopisto. Arkkitehtuurin laitos  
ISBN (Print): 978-952-15-3248-1  
ISBN (Electronic): 978-952-15-3249-8  
Original language: Finnish  
Electronic versions:  
kohti\_kestavaa\_skanssia  
URLs:  
<http://URN.fi/URN:ISBN:978-952-15-3249-8>

### Bibliographical note

Versio ok 14.12.2015  
Research output: Book/Report › Commissioned report › Professional

## Kuinka tehdään kaupunkia kaupunkiin

### General information

Publication status: Published  
MoE publication type: E1 Popularised article, newspaper article  
Organisations: School of Architecture  
Contributors: Hynynen, A.  
Number of pages: 1  
Publication date: 2014  
Peer-reviewed: Unknown

### Publication information

Journal: Ilkka 19.11.2014  
ISSN (Print): 0356-1283  
Original language: Finnish  
URLs:  
<http://www.ilkka.fi/mielipide/yleis%C3%B6lt%C3%A4/kuinka-tehdään-kaupunkia-kaupunkiin-1.1722306>

### Bibliographical note

Contribution: organisation=ark,FACT1=1<br/>Portfolio EDEND: 2014-12-30  
Source: researchoutputwizard  
Source ID: 529  
Research output: Contribution to journal › Article › General public

## Omannäköistä asumista : Visioita kehitysvammaisten asumiseen

### General information

Publication status: Published  
MoE publication type: C2 Edited books  
Organisations: School of Architecture  
Contributors: Helamaa, A., Kotilainen, S., Lahtinen, V.  
Number of pages: 167  
Publication date: 2014

### Publication information

Place of publication: Tampere

Publisher: Tampereen teknillinen yliopisto. Arkkitehtuurin laitos  
ISBN (Print): 978-952-15-3253-5  
ISBN (Electronic): 978-952-15-3254-2  
Original language: Finnish

#### Publication series

Name: Tampereen teknillinen yliopisto. Arkkitehtuurin laitos. Asuntosuunnittelu. Julkaisu  
Publisher: Tampereen teknillinen yliopisto. Arkkitehtuurin laitos  
No.: 13  
ISSN (Print): 2242-4598  
Electronic versions:  
omannakoista\_asumista.pdf  
URLs:  
<http://urn.fi/URN:ISBN:978-952-15-3254-2>

#### Bibliographical note

Contribution: organisation=ark,FACT1=1<br/>Portfolio EDEND: 2014-12-30  
Source: researchoutputwizard  
Source ID: 448  
Research output: Book/Report > Anthology > Scientific > peer-review

### On-campus Third Places for Collaborative Use and BYOD

#### General information

Publication status: Published  
MoE publication type: A4 Article in a conference publication  
Organisations: School of Architecture  
Contributors: Poutanen, J., Syvänen, A.  
Number of pages: 7  
Pages: 1395-1401  
Publication date: 2014

#### Host publication information

Title of host publication: Proceedings of World Conference on Educational Multimedia, Hypermedia and Telecommunications; EdMedia 2014, World conference on educational Media and Technology, Dates: June 23 - 26, 2014, Location: Tampere, Finland  
Publisher: Association for the Advancement of Computing in Education (AACE)  
ISBN (Electronic): 978-1-939797-08-7

#### Publication series

Name: World Conference on Educational Multimedia, Hypermedia and Telecommunications  
Volume: 2014  
No.: 1  
URLs:  
<http://www.editlib.org/p/147665/>  
<http://www.editlib.org/j/EDMEDIA/v/2014/n/1>

#### Bibliographical note

Contribution: organisation=ark,FACT1=1<br/>Portfolio EDEND: 2014-09-30<br/>Publisher name: Association for the Advancement of Computing in Education (AACE)  
Source: researchoutputwizard  
Source ID: 1298  
Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific > peer-review

#### Orimattilan Henna

Kurssijulkaisu. Vuoden 2014 yhdyskuntasuunnittelun ammattikurssi 1 opiskelijoiden harjoitustyöt. Kurssin harjoitustöiden teemana oli uuden kaupunginosan suunnittelu Lahti-Kerava -oikoradan varteen. Kurssi ja julkaisu toteutettiin yhteistyössä Orimattilan kaupungin kanssa.

#### General information

Publication status: Published  
MoE publication type: D4 Published development or research report or study  
Organisations: School of Architecture  
Contributors: Laak, M. (ed.)

Number of pages: 89  
Publication date: 2014

#### **Publication information**

Publisher: Tampereen teknillinen yliopisto. Arkkitehtuurin laitos  
ISBN (Print): 978-952-15-3321-1  
ISBN (Electronic): 978-952-15-3322-8  
Original language: Finnish  
Electronic versions:  
orimattilan\_henna  
URLs:  
<http://URN.fi/URN:ISBN:978-952-15-3322-8>

#### **Bibliographical note**

Versio ok 16.12.2015  
Research output: Book/Report › Commissioned report › Professional

### **Peukuttelevaa osallistumista ja ilon kautta suunnittelua**

#### **General information**

Publication status: Published  
MoE publication type: A1 Journal article-refereed  
Organisations: School of Architecture, Research group: EDGE  
Contributors: Joutsiniemi, A.  
Publication date: 2014  
Peer-reviewed: Yes

#### **Publication information**

Journal: Yhdyskuntasuunnittelu  
Volume: 52  
Issue number: 1  
ISSN (Print): 1459-6806  
Original language: Finnish  
URLs:  
<http://www.yss.fi/journal/peukuttelevaa-osallistumista-ja-ilon-kautta-suunnittelua/>  
Research output: Contribution to journal › Editorial › Scientific › peer-review

### **Pientaloa parempi? Better than an individual small house?**

#### **General information**

Publication status: Published  
MoE publication type: D1 Article in a trade journal  
Organisations: School of Architecture  
Contributors: Kotilainen, S., Hedman, M.  
Pages: 48-51  
Publication date: 2014  
Peer-reviewed: Unknown

#### **Publication information**

Journal: Puu  
Issue number: 3  
Original language: Finnish  
URLs:  
<http://www.puuinfo.fi/sites/default/files/content/puulehti/puu-lehti-32014/puu314web.pdf>  
<http://www.puuinfo.fi/puulehti/puu-lehti-32014>

#### **Bibliographical note**

Contribution: organisation=ark,FACT1=1  
Portfolio EDEND: 2015-01-11  
Source: researchoutputwizard  
Source ID: 798  
Research output: Contribution to journal › Article › Professional

## Pop-Up Spaces: From Prototyping to a Method of Revealing User-Attitudes

### General information

Publication status: Published  
MoE publication type: A4 Article in a conference publication  
Organisations: School of Architecture  
Contributors: Poutanen, J.  
Number of pages: 11  
Pages: 13-23  
Publication date: 2014

### Host publication information

Title of host publication: ATUT Proceedings, 5th Annual Symposium of Architectural Research, ARCHITECTURE AND RESILIENCE, August 28-30, 2013 Tampere, Finland  
Place of publication: Tampere  
Publisher: Tampere University of Technology, School of Architecture  
Editors: Chudoba, M., Joachimiak, M., Laak, M., Lehtovuori, P., Partanen, J., Rantanen, A., Siter, N.  
ISBN (Print): 978-952-15-3109-5  
ISBN (Electronic): 978-952-15-3109-5  
URLs:  
<http://urn.fi/URN:ISBN:978-952-15-3109-5>

### Bibliographical note

Contribution: organisation=ark,FACT1=1<br/>Portfolio EDEND: 2015-01-26<br/>Publisher name: Tampere University of Technology, School of Architecture  
Source: researchoutputwizard  
Source ID: 1297  
Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific > peer-review

## Potential and barriers for reusing load-bearing building components in Finland

### General information

Publication status: Published  
MoE publication type: A4 Article in a conference publication  
Organisations: School of Architecture, Research group: Built Environment in Transition  
Contributors: Huuhka, S., Hakanen, J. H.  
Pages: 1-9  
Publication date: 2014

### Host publication information

Title of host publication: 40th IAHS World Congress on Housing, Sustainable Housing Construction Proceedings, December 16-19, 2014, Funchal, Portugal  
Publisher: ITeCons  
Editors: Tadeu, A., Ural, D., Ural, O., Abrantes, V.  
ISBN (Print): 978-989-98949-1-4

### Bibliographical note

Contribution: organisation=ark,FACT1=1<br/>Portfolio EDEND: 2015-01-12<br/>Publisher name: ITeCons  
Source: researchoutputwizard  
Source ID: 524  
Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific > peer-review

## Public spaces, experience and conflict: The Cases of Helsinki and Tallinn

### General information

Publication status: Published  
MoE publication type: A3 Part of a book or another research book  
Organisations: School of Architecture, Research group: Built Environment in Transition, Research group: Urban Planning Theory, Institute of Society and Space (SOCIS)  
Contributors: Lehtovuori, P., Kurg, A., Schwab, M., Ermert, S.  
Number of pages: 23  
Pages: 125-143  
Publication date: 2014

### Host publication information

Title of host publication: Public Space and Relational Perspectives : New Challenges for Architecture and Planning  
Publisher: Routledge  
Editors: Tornaghi, C., Knierbein, S.  
ISBN (Print): 978-0-415-82157-5  
ISBN (Electronic): 978-1-315-75072-9

#### Publication series

Name: Routledge Research in Planning and Urban Design  
Publisher: Routledge  
URLs:  
<http://www.routledge.com/books/details/9780415821575/>

#### Bibliographical note

Contribution: organisation=ark,FACT1=1<br/>Portfolio EDEND: 2015-01-15  
Source: researchoutputwizard  
Source ID: 21  
Research output: Chapter in Book/Report/Conference proceeding > Chapter > Scientific > peer-review

#### Puu, tulevaisuuden materiaali

##### General information

Publication status: Published  
MoE publication type: D1 Article in a trade journal  
Organisations: School of Architecture, Research group: Urban Laboratory  
Contributors: Panu, A.  
Number of pages: 2  
Pages: 14-15  
Publication date: 2014  
Peer-reviewed: Unknown

##### Publication information

Journal: Arkkitehtiutiset  
Issue number: 12  
ISSN (Print): 0044-8915  
Original language: Finnish  
Research output: Contribution to journal > Article > Professional

#### SmartStation: Kohti älykästä asemanseutujen kehittämistä

##### General information

Publication status: Published  
MoE publication type: D4 Published development or research report or study  
Organisations: School of Architecture, Research group: Urban Laboratory, University of Tampere  
Contributors: Hynynen, A., Kolehmainen, J., Ruokolainen, O., Vanhatalo, J.  
Number of pages: 51  
Publication date: 2014

##### Publication information

Place of publication: Seinäjoki  
Publisher: The City of Seinäjoki  
ISBN (Print): 978-952-68291-0-4  
ISBN (Electronic): 978-952-68291-1-1  
Original language: Finnish  
URLs:  
[http://www.smartstation.fi/site/\\_files/SmartStation-loppuraportti.pdf](http://www.smartstation.fi/site/_files/SmartStation-loppuraportti.pdf)  
Research output: Book/Report > Commissioned report > Professional

#### Suomen aluerakenteen ja liikennejärjestelmän kehityskuva : Ennakointiteemojen ja tulevaisuuskuvien alueelliset näkökulmat. Osaraportti 2

##### General information

Publication status: Published  
MoE publication type: D4 Published development or research report or study  
Organisations: Department of Information Management and Logistics, Research group: Urban Laboratory, Research group: Transport Research Centre Verne, Suomen ympäristökeskus SYKE - Finnish Environment Institute, University of

Eastern Finland, Turun yliopisto

Contributors: Kalenoja, H., Rissanen, R., Hynynen, A., Rehunen, A., Ahonen, O., Mäkelä, T., Pöllänen, M., Palonen, T., Rantanen, A., Hirvonen, T., Tapio, P.

Number of pages: 100

Publication date: 2014

#### Publication information

Place of publication: Helsinki

Publisher: Ympäristöministeriö

ISBN (Print): 978-952-11-4266-6

Original language: Finnish

URLs:

[http://www.tut.fi/verne/wp-content/uploads/ALLI\\_osaraportti2\\_alueelliset\\_nakokulmat.pdf](http://www.tut.fi/verne/wp-content/uploads/ALLI_osaraportti2_alueelliset_nakokulmat.pdf)

#### Bibliographical note

Suomeen aluerakenteen ja liikennejärjestelmän kehityskuva (ALLI)<br/>Contribution:

organisation=tlo,FACT1=0.6<br/>Contribution: organisation=ark,FACT2=0.4<br/>Portfolio EDEND: 2014-12-30<br/>Publisher name: Ympäristöministeriö

Source: researchoutputwizard

Source ID: 638

Research output: Book/Report > Commissioned report > Professional

### Systemic Sustainability and Emerging Diversity of Shopping Concepts in Urban Multi-Agent Networks

#### General information

Publication status: Published

MoE publication type: A4 Article in a conference publication

Organisations: Institute of Society and Space (SOCIS), School of Architecture, Research group: EDGE

Contributors: Rantanen, A., Iltanen, S., Joutsiniemi, A.

Pages: 510-517

Publication date: 2014

#### Host publication information

Title of host publication: New Urban Configurations

Publisher: Delft University Press

Editors: Cavallo, R., Komossa, S., Marzot, N., Berghauer Pont, M., Kuijper, J.

ISBN (Print): 978-1-61499-365-0

ISBN (Electronic): 978-1-61499-366-7

DOIs:

10.3233/978-1-61499-365-0-517

#### Bibliographical note

Contribution: organisation=ark,FACT1=1<br/>Portfolio EDEND: 2015-03-20

Source: researchoutputwizard

Source ID: 1352

Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific > peer-review

### Tampereen Rantatunnelin Melutaide-gallerian teokset: Yksi kuudesta Melutaidegalleriaan osallistuvasta kuvataiteilijasta

#### General information

Publication status: Published

MoE publication type: F2 Public partial realisation of a work of art

Organisations: School of Architecture, Research group: Architecture: History, Theory and Innovations

Contributors: Soini, H.

Publication date: 2014

Research output: Artistic and non-textual form > Artefact > Art in coproduction > peer-review

### Tavoitteena lähipuukerrostalo

#### General information

Publication status: Published

MoE publication type: B2 Part of a book or another research book

Organisations: School of Architecture

Contributors: Hynynen, A., Taanila, T.



Number of pages: 10  
Pages: 378-397  
Publication date: 2014

#### Host publication information

Title of host publication: Opetuksen ja tutkimuksen näkökulmia: Seinäjoen ammattikorkeakoulu 2014  
Place of publication: Seinäjoki  
Publisher: SEINÄJOEN AMMATTIKORKEAKOULU  
Editors: Viljamaa, A., Päälysho, S., Lauhanen, R.  
ISBN (Print): 978-952-5863-78-9  
ISBN (Electronic): 978-952-5863-79-6

#### Publication series

Name: Seinäjoen ammattikorkeakoulun julkaisusarja A, Tutkimuksia  
Publisher: Seinäjoen Ammattikorkeakoulu  
No.: 17  
ISSN (Print): 1456-1735  
ISSN (Electronic): 1797-5565  
URLs:  
<http://urn.fi/URN:ISBN:978-952-5863-79-6>

#### Bibliographical note

Contribution: organisation=ark,FACT1=1<br/>Portfolio EDEND: 2014-12-30  
Source: researchoutputwizard  
Source ID: 531  
Research output: Chapter in Book/Report/Conference proceeding > Chapter > Scientific

#### Tieteen tuhti perspuoli

##### General information

Publication status: Published  
MoE publication type: A1 Journal article-refereed  
Organisations: School of Architecture, Research group: EDGE  
Contributors: Joutsiniemi, A.  
Publication date: 2014  
Peer-reviewed: Yes

##### Publication information

Journal: Yhdyskuntasuunnittelu  
Volume: 52  
Issue number: 3  
ISSN (Print): 1459-6806  
Original language: Finnish  
URLs:  
<http://www.yss.fi/journal/tieteen-tuhti-perspuoli/>  
Research output: Contribution to journal > Editorial > Scientific > peer-review

#### Towards a sustainable Skanssi

Course publication. The publication contains course works submitted for the Sustainable Design Studio 2013 which concentrate on the future development of the Skanssi area in Turku. For the publication six student groups' analyses and structure & masterplan –proposals have been gathered. In addition to that, selected individual works by 12 students are shown in this publication. Furthermore this publication contains a green roof and storm water management analysis and an environmental and landscape management proposal for the new residential areas.

##### General information

Publication status: Published  
MoE publication type: D4 Published development or research report or study  
Organisations: School of Architecture  
Contributors: Laak, M. (ed.), Del Barrio Batista, J. (ed.)  
Number of pages: 87  
Publication date: 2014

##### Publication information

Publisher: Tampere University of Technology, School of Architecture  
ISBN (Electronic): 978-952-15-3260-3

Original language: English  
Electronic versions:  
towards\_a\_sustainable\_skanssi  
URLs:  
<http://URN.fi/URN:ISBN:978-952-15-3260-3>

#### **Bibliographical note**

AUX=ark,"Del Barrio Batista, Juan"

Versio ok 14.12.2015

Research output: Book/Report › Commissioned report › Professional

#### **Uutta arkkitehtuuria kuntien tilahallintaan. Loppuraportti**

Projektin loppuraportti. Tampereen teknillisen yliopiston arkkitehtuurin laitoksen ja Parmaco Oy:n tutkimus siirtokelpoisten tilaratkaisujen käyttökokemuksista ja tulevaisuuden kehittämispotentiaaleista.

#### **General information**

Publication status: Published  
MoE publication type: D4 Published development or research report or study  
Organisations: School of Architecture  
Contributors: Joachimiak, M., Laak, M., Siter, N.  
Number of pages: 91  
Publication date: 2014

#### **Publication information**

Place of publication: Tampere  
Publisher: Tampereen teknillinen yliopisto. Arkkitehtuurin laitos  
ISBN (Print): 978-952-15-3288-7  
ISBN (Electronic): 978-952-15-3289-4  
Original language: Finnish

#### **Publication series**

Name: Tampereen teknillinen yliopisto. Arkkitehtuurin laitos. Laitosraportti  
Publisher: Tampereen teknillinen yliopisto  
Electronic versions:  
Uutta\_arkkitehtuuria\_kuntien\_tilahallintaan.pdf  
URLs:  
<http://urn.fi/URN:ISBN:978-952-15-3289-4>

#### **Bibliographical note**

Contribution: organisation=ark,FACT1=1<br/>Portfolio EDEND: 2014-09-16  
Source: researchoutputwizard  
Source ID: 601  
Research output: Book/Report › Commissioned report › Professional

#### **Vanhasta puusta uutta arkkitehtuuria / New architecture from old wood**

#### **General information**

Publication status: Published  
MoE publication type: D1 Article in a trade journal  
Organisations: School of Architecture, Research group: Built Environment in Transition  
Contributors: Huuhka, S.  
Number of pages: 1  
Pages: 46-47  
Publication date: 2014  
Peer-reviewed: Unknown

#### **Publication information**

Journal: Puu  
Issue number: 3  
Original language: English  
URLs:  
<http://www.puuinfo.fi/sites/default/files/content/puulehti/puu-lehti-32014/puu314web.pdf>

<http://www.puuinfo.fi/puulehti/puu-lehti-32014>

#### **Bibliographical note**

Contribution: organisation=ark,FACT1=1<br/>Portfolio EDEND: 2015-01-10

Source: researchoutputwizard

Source ID: 523

Research output: Contribution to journal › Article › Professional

#### **Well-being Architecture in Academic Workplace**

##### **General information**

Publication status: Published

MoE publication type: B3 Non-refereed article in conference proceedings

Organisations: School of Architecture

Contributors: Peltoniemi, S.

Number of pages: 8

Pages: 283-290

Publication date: 2014

##### **Host publication information**

Title of host publication: Proceedings of the 6th Annual Architectural Research Symposium in Finland 2014: Designing and Planning the Built Environment for Human Well-Being, October 23rd to 25th 2014, Oulu, Finland : The 6th Annual Symposium of Architectural Research 2014 and The Annual NAAR Symposium 2014, October 23-25, 2014, Oulu, Finland  
ISBN (Electronic): 978-952-62-0635-6

##### **Publication series**

Name: University of Oulu, Department of Architecture, Publications

No.: A61

ISSN (Print): 0357-8704

URLs:

<http://ojs.tsv.fi/index.php/atut/issue/view/3140>

<http://ojs.tsv.fi/index.php/atut/>

##### **Bibliographical note**

Contribution: organisation=ark,FACT1=1<br/>Portfolio EDEND: 2015-01-11

Source: researchoutputwizard

Source ID: 1261

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific

#### **Where Do you Start to Design a Dwelling?**

##### **General information**

Publication status: Published

Organisations: School of Architecture

Contributors: Kotilainen, S.

Number of pages: 2

Publication date: 2014

##### **Host publication information**

Title of host publication: Landscape Accessibility, Landscape Accessibility International Workshop - Milazzo 2014

Publisher: ARACNE

Editor: Morabito, V.

ISBN (Print): 978-88-548-7683-5

##### **Publication series**

Name: Intelligent landscape

No.: 3

##### **Bibliographical note**

Contribution: organisation=ark,FACT1=1<br/>Portfolio EDEND: 2014-12-30<br/>Publisher name: ARACNE

Source: researchoutputwizard

Source ID: 797

Research output: Chapter in Book/Report/Conference proceeding › Other chapter contribution › Scientific

## Yhdessä

### General information

Publication status: Published  
MoE publication type: D1 Article in a trade journal  
Organisations: School of Architecture  
Contributors: Helamaa, A.  
Number of pages: 10  
Pages: 18-27  
Publication date: 2014  
Peer-reviewed: Unknown

### Publication information

Journal: Arkkitehti  
Issue number: 4  
ISSN (Print): 0783-3660  
Original language: Finnish

### Bibliographical note

Contribution: organisation=ark,FACT1=1<br/>Portfolio EDEND: 2014-12-30<br/>Publisher name: Suomen Arkkitehtiiliitto  
Source: researchoutputwizard  
Source ID: 447  
Research output: Contribution to journal › Article › Professional

## Virkkulan Seniorikylä: Virikkeellisen yhteisöasumisen konsepti ikääntyville

### General information

Publication status: Published  
MoE publication type: G2 Master's thesis, polytechnic Master's thesis  
Organisations: School of Architecture  
Contributors: Tero, W.  
Number of pages: 99  
Publication date: 5 Jun 2013

### Publication information

Publisher: Tampereen teknillinen yliopisto. Arkkitehtuurin laitos  
Original language: Finnish

### Publication series

Name: Tampereen teknillinen yliopisto. Arkkitehtuurin laitos. Asuntosuunnittelu. Julkaisu  
Volume: 10  
ISSN (Print): 2242-4598  
Electronic versions:

weman

URLs:

<http://URN.fi/URN:ISBN:978-952-15-3032-6>

Research output: Book/Report › Master's Thesis › Scientific

## Kennosta kodiksi: tutkielmia moduulirakenteisista asuinkerrostaloista

### General information

Publication status: Published  
MoE publication type: G2 Master's thesis, polytechnic Master's thesis  
Organisations: School of Architecture  
Contributors: Tiia, R.  
Number of pages: 84  
Publication date: 3 Apr 2013

### Publication information

Publisher: Tampereen teknillinen yliopisto. Arkkitehtuurin laitos  
Original language: Finnish

### Publication series

Name: Tampereen teknillinen yliopisto. Arkkitehtuurin laitos. Asuntosuunnittelu. Julkaisu  
Volume: 8  
ISSN (Electronic): 2242-4598  
Electronic versions:  
ruutikainen  
URLs:  
<http://URN.fi/URN:ISBN:978-952-15-3019-7>  
Research output: Book/Report › Master's Thesis › Scientific

## **Kohti asukasta palvelevaa asuntoaluesuunnittelua: Suunnitelma Sastamalan Kukkurin rakentumiseksi**

### **General information**

Publication status: Published  
MoE publication type: G2 Master's thesis, polytechnic Master's thesis  
Organisations: School of Architecture  
Contributors: Leif, L.  
Number of pages: 157  
Publication date: 3 Apr 2013

### **Publication information**

Publisher: Tampereen teknillinen yliopisto. Arkkitehtuurin laitos  
ISBN (Print): 978-952-15-3028-9  
ISBN (Electronic): 978-952-15-3029-6  
Original language: Finnish

### **Publication series**

Name: Tampereen teknillinen yliopisto. Arkkitehtuurin laitos. Asuntosuunnittelu. Julkaisu  
Volume: 9  
ISSN (Electronic): 2242-4598  
Electronic versions:  
Lindegren  
URLs:  
<http://URN.fi/URN:ISBN:978-952-15-3029-6>  
Research output: Book/Report › Master's Thesis › Scientific

## **A Designed Third Place as Social Learning Space in Higher Education - Case Motivaattori**

### **General information**

Publication status: Published  
MoE publication type: A4 Article in a conference publication  
Organisations: School of Architecture  
Contributors: Poutanen, J.  
Number of pages: 10  
Pages: 688-697  
Publication date: 2013

### **Host publication information**

Title of host publication: INTED 2013 Proceedings : 7th International Technology, Education and Development Conference, Valencia, Spain, 4th - 6th March, 2013  
Publisher: IATED  
ISBN (Print): 978-84-616-2661-8  
URLs:  
<http://www.inted2013.org>

### **Bibliographical note**

Contribution: organisation=ark,FACT1=1<br/>Portfolio EDEND: 2014-10-08<br/>Publisher name: iated  
Source: researchoutputwizard  
Source ID: 3179  
Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

## **Aidot vanhat & kopiot**

### **General information**

Publication status: Published  
MoE publication type: E1 Popularised article, newspaper article  
Organisations: School of Architecture  
Contributors: Saatsi, P.  
Number of pages: 6  
Pages: 48-53  
Publication date: 2013  
Peer-reviewed: Unknown

#### Publication information

Journal: Glorian antiikki  
Issue number: 3  
ISSN (Print): 1238-5654  
Original language: Finnish

#### Bibliographical note

Contribution: organisation=ark,FACT1=1<br/>Portfolio EDEND: 2013-10-29<br/>Publisher name: Sanoma Magazines Finland Corporation  
Source: researchoutputwizard  
Source ID: 3330  
Research output: Contribution to journal › Article › General public

### Alvar Aalto's Abstract Paintings and His Quest for Expressive Forms

#### General information

Publication status: Published  
MoE publication type: B3 Non-refereed article in conference proceedings  
Organisations: School of Architecture  
Contributors: Hirvonen, T.  
Number of pages: 14  
Pages: 81-94  
Publication date: 2013

#### Host publication information

Title of host publication: Creativity, autonomy, function in architecture , Archtheo ´13, Conference Proceedings, December 4-6, 2013, Mimar Sinan Fine Arts University  
Place of publication: Istanbul  
Publisher: Mimar Sinan Guzel Sanatlar Universitesi  
Editors: Catak, N., Duyan, E.  
ISBN (Print): 978-975-6264-97-3

#### Publication series

Name: Theory of Architecture Conference

#### Bibliographical note

Contribution: organisation=ark,FACT1=1<br/>Portfolio EDEND: 2013-12-29<br/>Publisher name: Mimar Sinan Guzel Sanatlar Universitesi  
Source: researchoutputwizard  
Source ID: 2311  
Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific

### Annikin puutalokortteli - uusi elämä asukasvetoisesti

#### General information

Publication status: Published  
MoE publication type: D1 Article in a trade journal  
Organisations: School of Architecture  
Contributors: Helamaa, A.  
Number of pages: 4  
Pages: 32-35  
Publication date: 2013  
Peer-reviewed: Unknown

#### Publication information

Journal: RY Rakennettu ympäristö

Volume: 50  
Issue number: 1  
ISSN (Print): 1457-9510  
Original language: Finnish

#### **Bibliographical note**

Contribution: organisation=ark,FACT1=1<br/>Portfolio EDEND: 2013-12-29<br/>Publisher name: Rakennustarkasturyhdistys RTY ry; Rakennustietosäätiö RTS  
Source: researchoutputwizard  
Source ID: 2283  
Research output: Contribution to journal > Article > Professional

#### **Arkkitehtuuria neurotieteiden valossa**

##### **General information**

Publication status: Published  
MoE publication type: D1 Article in a trade journal  
Organisations: School of Architecture  
Contributors: Tuunanen, A.  
Number of pages: 2  
Pages: 22-23  
Publication date: 2013  
Peer-reviewed: Unknown

##### **Publication information**

Journal: Arkkitehtiutiset  
Volume: 65  
Issue number: 6-7  
ISSN (Print): 0044-8915  
Original language: Finnish

#### **Bibliographical note**

Poistettu tupla r=4762<br/>Contribution: organisation=ark,FACT1=1<br/>Portfolio EDEND: 2013-10-29<br/>Publisher name: Suomen Arkkitehtiiliitto  
Source: researchoutputwizard  
Source ID: 3592  
Research output: Contribution to journal > Article > Professional

#### **Arkkitehtuuri in Moduulirakentaminen: Teräskennoteknologian mahdollisuudet**

##### **General information**

Publication status: Published  
MoE publication type: D4 Published development or research report or study  
Organisations: School of Architecture  
Contributors: Kotilainen, S., Hedman, M.  
Number of pages: 16  
Publication date: 2013

##### **Publication information**

Place of publication: Tampere  
Publisher: Tampereen teknillinen yliopisto  
ISBN (Print): 978-952-15-3035-7  
ISBN (Electronic): 978-952-15-3036-4  
Original language: Finnish

##### **Publication series**

Name: Tampereen teknillinen yliopisto. Rakennustekniikan laitos. Rakennustuotanto ja -talous. Raportti  
Publisher: Tampereen teknillinen yliopisto  
Volume: 14  
ISSN (Print): 1797-8904  
URLs:  
<http://urn.fi/URN:ISBN:978-952-15-3036-4>

#### **Bibliographical note**

Contribution: organisation=ark,FACT1=1<br/>Portfolio EDEND: 2013-12-29

Source: researchoutputwizard  
Source ID: 2635  
Research output: Book/Report › Commissioned report › Professional

### Arkkitehtuurista kulttuurijournalismin kokeilukenttä

#### General information

Publication status: Published  
MoE publication type: D1 Article in a trade journal  
Organisations: School of Architecture  
Contributors: Tuunanen, A.  
Number of pages: 2  
Pages: 16-17  
Publication date: 2013  
Peer-reviewed: Unknown

#### Publication information

Journal: Arkkitehtiutiset  
Issue number: 9  
ISSN (Print): 0044-8915  
Original language: Finnish

#### Bibliographical note

Contribution: organisation=ark,FACT1=1<br/>Portfolio EDEND: 2013-12-29  
Source: researchoutputwizard  
Source ID: 3593  
Research output: Contribution to journal › Article › Professional

### Arkkitehtuuritutkimuksen päivät 2011: Tutkimus ja käytäntö / Proceedings of the 3rd Symposium of Architectural Research 2011: Research & Praxis

#### General information

Publication status: Published  
MoE publication type: C2 Edited books  
Organisations: School of Architecture  
Contributors: Herneoja, A. (ed.), Hirviniemi, H. (ed.), Hirvonen-Kantola, S. (ed.), Joutsiniemi, A. (ed.), Luusua, A. (ed.), Mäntysalo, R. (ed.), Niskanen, A. (ed.), Niskasaari, K. (ed.), Pihlajaniemi, H. (ed.), Rönkkö, E. (ed.), Soikkeli, A. (ed.), Soudunsaari, L. (ed.), Suikkari, R. (ed.), Tolonen, K. (ed.)  
Publication date: 2013

#### Publication information

Place of publication: Oulu  
Publisher: Unknown Publisher  
ISBN (Print): 978-951-42-9981-0  
ISBN (Electronic): 978-951-42-9982-7  
Original language: Finnish

#### Publication series

Name: Julkaisu - Oulun yliopisto. Arkkitehtuurin osasto. A  
No.: A 58  
ISSN (Print): 0357-8704  
URLs:  
<http://herkules.oulu.fi/isbn9789514299827/isbn9789514299827.pdf>

#### Bibliographical note

Contribution: organisation=ark,FACT1=1<br/>Portfolio EDEND: 2013-12-29  
Source: researchoutputwizard  
Source ID: 2299  
Research output: Book/Report › Anthology › Scientific › peer-review

### Artikkeli: Kaupunkiympäristön arvot ovat hukassa?

#### General information

Publication status: Published



MoE publication type: E1 Popularised article, newspaper article  
Organisations: School of Architecture  
Contributors: Hynynen, A.  
Publication date: 2013  
Peer-reviewed: Unknown

#### **Publication information**

Journal: Ilkka  
Original language: Finnish

#### **Bibliographical note**

Contribution: organisation=ark,FACT1=1<br/>Portfolio EDEND: 2013-11-29  
Source: researchoutputwizard  
Source ID: 2359  
Research output: Contribution to journal > Article > General public

### **Artikkeli: Vehreällä ehdotuksella voittoon Hyvinkään ideakilpailussa**

#### **General information**

Publication status: Published  
MoE publication type: D1 Article in a trade journal  
Organisations: School of Architecture  
Contributors: Hynynen, A., Jalkanen, R., Jarva, A.  
Number of pages: 4  
Pages: 24-27  
Publication date: 2013  
Peer-reviewed: Unknown

#### **Publication information**

Journal: Arkkitehtiutiset  
Volume: 65  
Issue number: 1  
ISSN (Print): 0044-8915  
Original language: Finnish

#### **Bibliographical note**

Contribution: organisation=ark,FACT1=1<br/>Portfolio EDEND: 2013-11-29  
Source: researchoutputwizard  
Source ID: 2360  
Research output: Contribution to journal > Article > Professional

### **Can the new cosmology, cosmogenesis, serve as a basis for a shared value system in architecture? On Charles Jencks**

#### **General information**

Publication status: Published  
MoE publication type: A1 Journal article-refereed  
Organisations: School of Architecture  
Contributors: Passinmäki, P.  
Number of pages: 5  
Pages: 19-23  
Publication date: 2013  
Peer-reviewed: Yes

#### **Publication information**

Journal: ARQ-Architectural Research Quarterly  
Volume: 17  
Issue number: 1  
ISSN (Print): 1359-1355  
Ratings:  
Scopus rating (2013): CiteScore 0.2 SJR 0.123 SNIP 0.133  
Original language: English  
DOIs:  
10.1017/S1359135513000316

#### **Bibliographical note**

Contribution: organisation=ark,FACT1=1<br/>Portfolio EDEND: 2013-12-29<br/>Publisher name: Cambridge University Press  
Source: researchoutputwizard  
Source ID: 3103  
Research output: Contribution to journal › Article › Scientific › peer-review

### Erityisiä asumisratkaisuja

#### General information

Publication status: Published  
MoE publication type: D1 Article in a trade journal  
Organisations: School of Architecture  
Contributors: Hedman, M., Sanaksenaho, P.  
Number of pages: 3  
Pages: 30-32  
Publication date: 2013  
Peer-reviewed: Unknown

#### Publication information

Journal: Arkkitehtiutiset  
Volume: 65  
Issue number: 4  
ISSN (Print): 0044-8915  
Original language: Finnish

#### Bibliographical note

Contribution: organisation=ark,FACT1=1<br/>Portfolio EDEND: 2013-10-29  
Source: researchoutputwizard  
Source ID: 2256  
Research output: Contribution to journal › Article › Professional

### From momentary to historic: Rhythms in the social production of urban space, the case of Calçada de Sant'Ana, Lisbon

#### General information

Publication status: Published  
MoE publication type: A1 Journal article-refereed  
Organisations: School of Architecture, Institute of Society and Space (SOCIS)  
Contributors: Lehtovuori, P., Koskela, H.  
Pages: 124-143  
Publication date: 2013  
Peer-reviewed: Yes

#### Publication information

Journal: Sociological Review  
Volume: 61  
Issue number: Suppl. 1  
ISSN (Print): 0038-0261  
Ratings:  
Scopus rating (2013): CiteScore 1.6 SJR 0.947 SNIP 1.598  
Original language: English  
DOIs:  
10.1111/1467-954X.12057

#### Bibliographical note

Contribution: organisation=ark,FACT1=1<br/>Portfolio EDEND: 2013-12-29  
Source: researchoutputwizard  
Source ID: 2761  
Research output: Contribution to journal › Article › Scientific › peer-review

### Havaintoja yhteisöasumisesta

#### General information

Publication status: Published  
MoE publication type: A4 Article in a conference publication

Organisations: School of Architecture  
Contributors: Helamaa, A.  
Number of pages: 10  
Publication date: 2013

#### Host publication information

Title of host publication: Arkkitehtuuritutkimuksen päivät 2011. Tutkimus ja käytäntö, Proceedings of the 3rd Symposium of Architectural Research 2011. Research & Praxis  
Place of publication: Oulu  
Publisher: University of Oulu, Department of Architecture  
Editors: Herneoja, A., Hirviniemi, H., Hirvonen-Kantola, S., Joutsiniemi, A., Luusua, A., Mäntysalo, R., Niskanen, A., Niskasaari, K., Pihlajaniemi, H., Rönkkö, E., Soikkeli, A., Soudunsaari, L., Suikkari, R., Tolonen, K.  
ISBN (Print): 978-951-42-9981-0  
ISBN (Electronic): 978-951-42-9982-7

#### Publication series

Name: Julkaisu- Oulun yliopisto. Arkkitehtuurin osasto. A  
No.: 58  
ISSN (Print): 0357-8704  
URLs:  
<http://herkules.oulu.fi/isbn9789514299827/isbn9789514299827.pdf>

#### Bibliographical note

Contribution: organisation=ark,FACT1=1<br/>Portfolio EDEND: 2013-12-29<br/>Publisher name: University of Oulu, Department of Architecture  
Source: researchoutputwizard  
Source ID: 2284  
Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific > peer-review

#### Informaatiohippasilla

##### General information

Publication status: Published  
MoE publication type: B1 Article in a scientific magazine  
Organisations: School of Architecture  
Contributors: Joutsiniemi, A.  
Number of pages: 4  
Pages: 4-7  
Publication date: 2013  
Peer-reviewed: No

##### Publication information

Journal: Yhdyskuntasuunnittelu  
Volume: 51  
Issue number: 1  
ISSN (Print): 1459-6806  
Original language: Finnish

##### Bibliographical note

Contribution: organisation=ark,FACT1=1<br/>Portfolio EDEND: 2013-12-29  
Source: researchoutputwizard  
Source ID: 2427  
Research output: Contribution to journal > Article > Scientific

#### Johdanto: Arkkitehtiopiskelijat Näsilinnassa

##### General information

Publication status: Published  
MoE publication type: D4 Published development or research report or study  
Organisations: School of Architecture  
Contributors: Kalakoski, I., Kuitunen, H.  
Number of pages: 1  
Publication date: 2013

##### Publication information

Publisher: Tampereen teknillinen yliopisto  
ISBN (Print): 978-952-15-3210-8  
Original language: Finnish

#### Publication series

Name: Tampereen teknillinen yliopisto. Arkkitehtuurin laitos. Arkkitehtuurin historian julkaisuja  
Publisher: Tampereen teknillinen yliopisto  
Volume: 1  
ISSN (Print): 2341-9865  
URLs:  
<http://urn.fi/URN:ISBN:978-952-15-3210-8>

#### Bibliographical note

Contribution: organisation=ark,FACT1=1<br/>Portfolio EDEND: 2013-12-29  
Source: researchoutputwizard  
Source ID: 2459  
Research output: Book/Report > Commissioned report > Professional

#### Kaupungista välittäminen : reitityksiä kohti urbaania mannerta

##### General information

Publication status: Published  
MoE publication type: B2 Part of a book or another research book  
Organisations: School of Architecture  
Contributors: Lehtovuori, P.  
Number of pages: 10  
Pages: 111-120  
Publication date: 2013

##### Host publication information

Title of host publication: Matkalla : Professori Pauli Tapani Karjalaisen 60-vuotisjuhlakirja  
Place of publication: Oulu  
Publisher: Anssi Paasi  
Editors: Paasi, A., Rannila, P., Tani, S.  
ISBN (Print): 978-952-93-1901-5

##### Bibliographical note

Contribution: organisation=ark,FACT1=1<br/>Portfolio EDEND: 2013-12-29  
Source: researchoutputwizard  
Source ID: 2757  
Research output: Chapter in Book/Report/Conference proceeding > Chapter > Scientific

#### Kaupunkimaisuuden näkökulma

##### General information

Publication status: Published  
MoE publication type: D1 Article in a trade journal  
Organisations: School of Architecture  
Contributors: Lehtovuori, P.  
Number of pages: 4  
Pages: 46-49  
Publication date: 2013  
Peer-reviewed: Unknown

##### Publication information

Journal: Arkkitehti  
Issue number: 6  
ISSN (Print): 0783-3660  
Original language: Finnish

##### Bibliographical note

Contribution: organisation=ark,FACT1=1<br/>Portfolio EDEND: 2013-12-29<br/>Publisher name: Suomen Arkkitehtiiliitto  
Source: researchoutputwizard  
Source ID: 2758  
Research output: Contribution to journal > Article > Professional

**Klassikko täyttää pyöreitä : 1943 : The city - its growth, its decay, its future : Saarinen, E (1943). The city - its growth, its decay, its future. Cambridge, Massachussets: The MIT Press. ISBN 1262190176. 380s. : Kohti desentralisoitua kaupunkirakennetta**

#### **General information**

Publication status: Published  
MoE publication type: B1 Article in a scientific magazine  
Organisations: School of Architecture  
Contributors: Chudoba, M.  
Number of pages: 3  
Pages: 74-76  
Publication date: 2013  
Peer-reviewed: No

#### **Publication information**

Journal: Yhdyskuntasuunnittelu  
Volume: 51  
Issue number: 1  
ISSN (Print): 1459-6806  
Original language: Finnish

#### **Bibliographical note**

Contribution: organisation=ark,FACT1=1<br/>Portfolio EDEND: 2013-11-29<br/>Publisher name: Yhdyskuntasuunnittelun Seura  
Source: researchoutputwizard  
Source ID: 2045  
Research output: [Contribution to journal](#) > [Article](#) > [Scientific](#)

**Kokemuksellisia pisteitä muuttuvassa kaupungissa : Havaintoja 2000-luvun Espoosta / Upplevelserum i den föränderliga staden : Observationer i Esbo på 2000-talet / Experiential places in a changing city : Observations in 21st century Espoo**

#### **General information**

Publication status: Published  
MoE publication type: B2 Part of a book or another research book  
Organisations: School of Architecture  
Contributors: Lehtovuori, P.  
Pages: 27-34; 38-41; 45-49  
Publication date: 2013

#### **Host publication information**

Title of host publication: Espoo : arjen arkkitehtuuria / Esbo : arkitektur för alla / Espoo : everyday architecture  
Place of publication: Helsinki  
Publisher: PARVS PUBLISHING  
Editor: Hovinen, J.  
ISBN (Print): 978-952-5654-48-6

#### **Bibliographical note**

Contribution: organisation=ark,FACT1=1<br/>Portfolio EDEND: 2013-12-29  
Source: researchoutputwizard  
Source ID: 2759  
Research output: [Chapter in Book/Report/Conference proceeding](#) > [Chapter](#) > [Scientific](#)

**Kokemuksia Torontosta : Maailman parhaat kaupungit -kurssin nr 1 raportti**

#### **General information**

Publication status: Published  
MoE publication type: C2 Edited books  
Organisations: School of Architecture  
Contributors: Ilmavirta, T. (ed.), Lehtovuori, P. (ed.), Mattila, H. (ed.)  
Publication date: 2013

#### **Publication information**

Place of publication: Helsinki

Publisher: URBANISMISÄÄTIÖ  
ISBN (Print): 978-952-93-2340-1  
ISBN (Electronic): 978-952-93-2341-8  
Original language: Finnish  
URLs:

<http://flash.kunnat.net/2013/urbanismisaatio/kokemuksia-torontosta/#1>

#### **Bibliographical note**

Contribution: organisation=ark,FACT1=1<br/>Portfolio EDEND: 2013-12-29  
Source: researchoutputwizard  
Source ID: 2368  
Research output: Book/Report › Anthology › Scientific › peer-review

#### **Kolme tapaa korjata lähiökerrostalo : Three ways to renovate neighbourhood units**

##### **General information**

Publication status: Published  
MoE publication type: D1 Article in a trade journal  
Organisations: School of Architecture, Research group: Built Environment in Transition  
Contributors: Huuhka, S.  
Number of pages: 3  
Pages: 68-70  
Publication date: 2013  
Peer-reviewed: Unknown

##### **Publication information**

Journal: Arkkitehti  
Volume: 110  
Issue number: 3  
ISSN (Print): 0783-3660  
Original language: Finnish

##### **Bibliographical note**

Contribution: organisation=ark,FACT1=1<br/>Portfolio EDEND: 2013-10-29<br/>Publisher name: Suomen Arkkitehtiilitto  
Source: researchoutputwizard  
Source ID: 2354  
Research output: Contribution to journal › Article › Professional

#### **Kymppi tools for MapInfo: [http://www.jyvaskyla.fi/kymppimoni/kymppir\\_tools](http://www.jyvaskyla.fi/kymppimoni/kymppir_tools)**

##### **General information**

Publication status: Published  
MoE publication type: I2 ICT software  
Organisations: School of Architecture  
Contributors: Joutsiniemi, A., Vanhatalo, J.  
Publication date: 2013  
Media of output: Online

##### **Bibliographical note**

Contribution: organisation=ark,FACT1=1<br/>Portfolio EDEND: 2013-12-29  
Source: researchoutputwizard  
Source ID: 2432  
Research output: Artistic and non-textual form › Software › Scientific

#### **Lapsia liikuttava kaupunki**

##### **General information**

Publication status: Published  
MoE publication type: A3 Part of a book or another research book  
Organisations: School of Architecture  
Contributors: Hynynen, A., Kyttä, M., Vasankari, T., Aittasalo, M., Broberg, A., Sarjala, S.  
Number of pages: 16  
Pages: 210-225  
Publication date: 2013

### Host publication information

Title of host publication: Ketä kiinnostaa? : lasten ja nuorten hyvinvointi ja syrjäytyminen  
Publisher: Suomen Akatemia : Gaudeamus  
Editors: Reivinen, J., Vähäkylä, L.  
ISBN (Print): 978-952-495-316-0

### Bibliographical note

Contribution: organisation=ark,FACT1=1<br/>Portfolio EDEND: 2013-12-29  
Source: researchoutputwizard  
Source ID: 2361  
Research output: Chapter in Book/Report/Conference proceeding › Chapter › Scientific › peer-review

**Liikennesuunnittelun James Bond / The James Bond of traffic planning : Pentti Murole: Ihmistä ei voi suunnitella - kiveä voi! : Arkkitehtuuritoimisto B&M, 2012. 478 s**

### General information

Publication status: Published  
MoE publication type: D1 Article in a trade journal  
Organisations: School of Architecture  
Contributors: Lehtovuori, P.  
Number of pages: 2  
Pages: 84-85  
Publication date: 2013  
Peer-reviewed: Unknown

### Publication information

Journal: Arkkitehti  
Issue number: 1  
ISSN (Print): 0783-3660  
Original language: Finnish

### Bibliographical note

Contribution: organisation=ark,FACT1=1<br/>Portfolio EDEND: 2013-12-29<br/>Publisher name: Suomen Arkkitehtiliitto  
Source: researchoutputwizard  
Source ID: 2760  
Research output: Contribution to journal › Article › Professional

**Mitä peetä? : (Wisa Majamaa: The 4th P – people – in urban development based on Public-Private-People partnership ja Matti Kuronen: The role of partnerships in sustainable urban residential development.)**

### General information

Publication status: Published  
MoE publication type: B1 Article in a scientific magazine  
Organisations: School of Architecture  
Contributors: Joutsiniemi, A.  
Number of pages: 4  
Pages: 67-70  
Publication date: 2013  
Peer-reviewed: No

### Publication information

Journal: Yhdyskuntasuunnittelu  
Volume: 51  
Issue number: 1  
ISSN (Print): 1459-6806  
Original language: Finnish

### Bibliographical note

Kirjat : Majamaa, Wisa.(2008).The 4th P - people - in urban development based on Public-Private-People partnership.TKK Structural Engineering and Building Technology Dissertations: 2 TKK-R-VK2, Espoo.ISBN: 978-951-22-9585-2; Kuronen, Matti.(2011).The role of partnerships in sustainable urban residential development.Aalto University publication series: Doctoral Dissertations 63/2011.ISBN 978-952-60-4220-6<br/>Contribution: organisation=ark,FACT1=1<br/>Portfolio EDEND: 2013-12-29  
Source: researchoutputwizard  
Source ID: 2428

## Mitattu, mallinnettu ja koettu lämpöviihtyvyys toimistohuoneessa

### General information

Publication status: Published

MoE publication type: B3 Non-refereed article in conference proceedings

Organisations: School of Architecture

Contributors: Airaksinen, M., Holopainen, R., Tuomaala, P., Piippo, J., Piira, K., Saari, M., Antson, A., Ruotsalainen, R., Joutsiniemi, A., Mathlin, M., Haapakangas, A., Ruohomäki, V., Lahtinen, M.

Number of pages: 5

Pages: 259-264

Publication date: 2013

### Host publication information

Title of host publication: Sisäilmastoseminaari 2013, Messukuskus, Helsinki 13.3.2013

Editors: Säteri, J., Backman, H.

ISBN (Print): 978-952-5236-41-5

### Publication series

Name: SIY Raportti

ISSN (Print): 1237-1866

### Bibliographical note

Contribution: organisation=ark,FACT1=1<br/>Portfolio EDEND: 2013-12-29

Source: researchoutputwizard

Source ID: 1892

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific

## Moduulirakentaminen. Ratkaisumalleja tulevaisuuden asuntorakentamisen haasteisiin

### General information

Publication status: Published

MoE publication type: D4 Published development or research report or study

Organisations: School of Architecture

Contributors: Kotilainen, S.

Number of pages: 207

Publication date: 2013

### Publication information

Publisher: Tampereen teknillinen yliopisto. Arkkitehtuurin laitos

ISBN (Print): 978-952-15-3009-8

ISBN (Electronic): 978-952-15-3010-4

Original language: Finnish

### Publication series

Name: Tampereen teknillinen yliopisto. Arkkitehtuurin laitos. Asuntosuunnittelu. Julkaisu

Publisher: Tampereen teknillinen yliopisto

Volume: 7

ISSN (Print): 2242-4598

Electronic versions:

kotilainen\_moduulirakentaminen.pdf

URLs:

<http://urn.fi/URN:ISBN:978-952-15-3010-4>

### Bibliographical note

Contribution: organisation=ark,FACT1=1<br/>Portfolio EDEND: 2013-12-29

Source: researchoutputwizard

Source ID: 2634

Research output: Book/Report › Commissioned report › Professional

## Näkökulma vanhaan vaihtuu : Towards transformation

### General information



Publication status: Published  
MoE publication type: D1 Article in a trade journal  
Organisations: School of Architecture  
Contributors: Koponen, O.  
Number of pages: 9  
Pages: 13-21  
Publication date: 2013  
Peer-reviewed: Unknown

#### Publication information

Journal: Arkkitehti  
Volume: 110  
Issue number: 3  
ISSN (Print): 0783-3660  
Original language: English

#### Bibliographical note

Contribution: organisation=ark,FACT1=1<br/>Portfolio EDEND: 2013-11-29<br/>Publisher name: Suomen Arkkitehtiitto  
Source: researchoutputwizard  
Source ID: 2601  
Research output: Contribution to journal › Article › Professional

### Näsilinna 2013. Erikoiskurssi historiallisen arvorakennuksen dokumentoinnista

#### General information

Publication status: Published  
MoE publication type: C2 Edited books  
Organisations: School of Architecture  
Contributors: Kalakoski, I. (ed.)  
Number of pages: 98  
Publication date: 2013

#### Publication information

Publisher: Tampereen teknillinen yliopisto; Tampereen museopalvelut / Pirkanmaan maakuntamuseo  
ISBN (Print): 978-952-15-3209-2  
ISBN (Electronic): 978-952-15-3210-8  
Original language: Finnish

#### Publication series

Name: Tampereen teknillinen yliopisto. Arkkitehtuurin laitos. Arkkitehtuurin historian julkaisuja  
Publisher: Tampereen teknillinen yliopisto; Tampereen museopalvelut / Pirkanmaan maakuntamuseo  
Volume: 1  
ISSN (Print): 2341-9865  
Electronic versions:  
nasilinna\_2013  
URLs:  
<http://urn.fi/URN:ISBN:978-952-15-3210-8>

#### Bibliographical note

On esipuhe<br/>Contribution: organisation=ark,FACT1=1<br/>Portfolio EDEND: 2013-12-29  
Source: researchoutputwizard  
Source ID: 2457  
Research output: Book/Report › Anthology › Scientific › peer-review

### Näsilinnan muutos- ja korjaushanke: rakennuksen olemus ja arvostukset

Tämä julkaisu sai alkunsa keväällä 2013 kun Pirkanmaan Maakuntamuseon rakennustutkija Hannele Kuitunen otti yhteyttä Tampereen teknillisen yliopiston arkkitehtuurin historian oppituoliin ja siellä professori Olli-Paavo Koposeen. Oppituolillemme tarjoutui harvinainen tilaisuus päästä toteuttamaan yhden Tampereen mielenkiintoisimman rakennuksen dokumentointia. Tamperelainen merkkirakennus, Näsilinna, oli muutosten edessä ja rakennuksen kunnostussuunnittelu oli viimeinkin käynnistetty. Kunnostuksen tueksi tarvittiin selvitysaineistoa rakennuksen ominaispiirteistä ja arvoista. Tarvetta oli myös tallentaa muistiin mittavia muutostöitä edeltävä tilanne; rakennus siinä asussaan kuin se pitkän museohistoriansa jälkeen oli. Rakennustutkija Hannele Kuitusen yhteydenotto muotoutui dokumentointikurssiksi, jonka tavoitteeksi asetettiin aiemmin tehdyn, yleispiirteisen dokumentoinnin täydentäminen syvällisemmillä, teemakohtaisilla tarkasteluilla.

#### General information

Publication status: Published  
MoE publication type: D4 Published development or research report or study  
Organisations: School of Architecture  
Contributors: Hirvonen, T.  
Number of pages: 9  
Publication date: 2013

#### **Publication information**

Publisher: Unknown Publisher  
ISBN (Print): 978-952-15-3210-8  
Original language: Finnish

#### **Publication series**

Name: Tampereen teknillinen yliopisto. Arkkitehtuurin laitos. Arkkitehtuurin historian julkaisuja  
Volume: 1  
ISSN (Print): 2341-9865  
URLs:  
<http://urn.fi/URN:ISBN:978-952-15-3210-8>

#### **Bibliographical note**

Contribution: organisation=ark,FACT1=1<br/>Portfolio EDEND: 2013-12-29  
Source: researchoutputwizard  
Source ID: 2312  
Research output: Book/Report › Commissioned report › Professional

### **Panu Lehtovuori - professori teorian ja käytännön välissä**

#### **General information**

Publication status: Published  
MoE publication type: D1 Article in a trade journal  
Organisations: School of Architecture  
Contributors: Chudoba, M.  
Number of pages: 365  
Pages: 7-9  
Publication date: 2013  
Peer-reviewed: Unknown

#### **Publication information**

Journal: Arkkitehtiutiset  
Volume: 65  
Issue number: 3  
ISSN (Print): 0044-8915  
Original language: Finnish

#### **Bibliographical note**

Contribution: organisation=ark,FACT1=1<br/>Portfolio EDEND: 2013-10-29  
Source: researchoutputwizard  
Source ID: 2046  
Research output: Contribution to journal › Article › Professional

### **Partial dismantling of 1960's to 80's housing estates - a sustainable holistic solution**

#### **General information**

Publication status: Published  
MoE publication type: A4 Article in a conference publication  
Organisations: School of Architecture, Life Cycle Effectiveness of the Built Environment (LCE@BE), Research group: Built Environment in Transition  
Contributors: Huuhka, S.  
Number of pages: 9  
Pages: 1031-1039  
Publication date: 2013

#### **Host publication information**

Title of host publication: Structures and Architecture, Concepts, Applications and Challenges, Proceedings of the 2nd International Conference on Structures and Architecture, ICSA 2013, Guimaraes, Portugal, 24.-26.7.2013

Editor: Cruz, P. J.  
ISBN (Print): 978-0-415-66195-9  
ISBN (Electronic): 978-0-203-79856-0

#### **Publication series**

Name: International Conference on Structures and Architecture

#### **Bibliographical note**

Contribution: organisation=ark,FACT1=1<br/>Portfolio EDEND: 2013-11-29

Source: researchoutputwizard

Source ID: 2355

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

### **Participatory Design when Renovating Premises - Process and Methods**

#### **General information**

Publication status: Published

MoE publication type: A4 Article in a conference publication

Organisations: School of Architecture

Contributors: Ruohomäki, V., Lahtinen, M., Joutsiniemi, A.

Number of pages: 6

Pages: 1-6

Publication date: 2013

#### **Host publication information**

Title of host publication: Proceedings of the 45th Annual International Conference of the Nordic Ergonomics & Human Factors Society NES 2013. Ergonomics for Equality. 11-14 August 2013, Reykjavik, Iceland

ISBN (Print): 978-9979-72-397-4

#### **Publication series**

Name: Annual Conference of the Nordic Ergonomics Society

URLs:

<http://www.nes2013.is>

#### **Bibliographical note**

Contribution: organisation=ark,FACT1=1<br/>Portfolio EDEND: 2013-12-29

Source: researchoutputwizard

Source ID: 3295

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

### **Patina herättää tunteita**

#### **General information**

Publication status: Published

MoE publication type: B2 Part of a book or another research book

Organisations: School of Architecture

Contributors: Kalakoski, I.

Pages: 122-124

Publication date: 2013

#### **Host publication information**

Title of host publication: Kulttuuriympäristön monet kasvot : puhetta suojelusta ja restauroinnista

Place of publication: Helsinki

Publisher: Suomenlinnan hoitokunta

Editor: Perkkiö, M.

ISBN (Print): 978-951-9437-40-8

#### **Bibliographical note**

Contribution: organisation=ark,FACT1=1<br/>Portfolio EDEND: 2013-11-29

Source: researchoutputwizard

Source ID: 2458

Research output: Chapter in Book/Report/Conference proceeding › Chapter › Scientific

## Perinteisten ikkunoiden tiivistysvaihtoehtojen tutkiminen ilmanpitävyyssmittauksin

### General information

Publication status: Published  
MoE publication type: B3 Non-refereed article in conference proceedings  
Organisations: Department of Civil Engineering, School of Architecture  
Contributors: Aaltonen, A., Saatsi, P., Vinha, J.  
Number of pages: 6  
Pages: 367-372  
Publication date: 2013

### Host publication information

Title of host publication: Rakennusfysiikka 2013 : uusimmat tutkimustulokset ja hyvät käytännön ratkaisut, 22.-24.10.2013, Tampere  
Place of publication: Tampere  
Publisher: Tampereen teknillinen yliopisto, rakennustekniikan laitos, rakennetekniikka  
Editors: Vinha, J., Aaltonen, A.  
ISBN (Print): 978-952-15-3148-4

### Publication series

Name: Tampereen teknillinen yliopisto, rakennustekniikan laitos, rakennetekniikka, seminaarijulkaisu  
No.: 3

### Bibliographical note

Contribution: organisation=rak,FACT1=0.5<br/>Contribution: organisation=ark,FACT2=0.5<br/>Portfolio EDEND: 2013-10-29<br/>Publisher name: Tampereen teknillinen yliopisto, rakennustekniikan laitos, rakennetekniikka  
Source: researchoutputwizard  
Source ID: 1862  
Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific

## Suunnitelmallista hajaannusta

### General information

Publication status: Published  
MoE publication type: B1 Article in a scientific magazine  
Organisations: School of Architecture  
Contributors: Joutsiniemi, A.  
Pages: 4-7  
Publication date: 2013  
Peer-reviewed: No

### Publication information

Journal: Yhdyskuntasuunnittelu  
Volume: 51  
Issue number: 2  
ISSN (Print): 1459-6806  
Original language: Finnish

### Bibliographical note

Contribution: organisation=ark,FACT1=1<br/>Portfolio EDEND: 2013-12-29  
Source: researchoutputwizard  
Source ID: 2429  
Research output: Contribution to journal > Article > Scientific

## Taidenäyttely aika ajast´aikaan: Naantalin taidehuone 21.5.-9.6.2013

### General information

Publication status: Published  
MoE publication type: F1 Published independent work of art  
Organisations: School of Architecture  
Contributors: Soini, K.  
Publication date: 2013  
Media of output: Other

### Bibliographical note

Contribution: organisation=ark,FACT1=1<br/>Portfolio EDEND: 2013-10-29  
Source: researchoutputwizard  
Source ID: 3438  
Research output: Artistic and non-textual form › Exhibition › Solo art production

## Tapaus Kummatti

### General information

Publication status: Published  
MoE publication type: D1 Article in a trade journal  
Organisations: School of Architecture  
Contributors: Hagan, H.  
Number of pages: 2  
Pages: 71-72  
Publication date: 2013  
Peer-reviewed: Unknown

### Publication information

Journal: Arkkitehti  
Volume: 110  
Issue number: 3  
ISSN (Print): 0783-3660  
Original language: Finnish

### Bibliographical note

Contribution: organisation=ark,FACT1=1<br/>Portfolio EDEND: 2013-10-29<br/>Publisher name: Suomen Arkkitehtiliitto  
Source: researchoutputwizard  
Source ID: 2215  
Research output: Contribution to journal › Article › Professional

## The extended home: On design solutions for community oriented housing

### General information

Publication status: Published  
MoE publication type: B1 Article in a scientific magazine  
Organisations: School of Architecture  
Contributors: Helamaa, A.  
Number of pages: 15  
Pages: 70-84  
Publication date: 2013  
Peer-reviewed: No

### Publication information

Journal: Social Sciences Directory  
Volume: 2  
Issue number: 4  
ISSN (Print): 2049-6869  
Original language: English  
DOIs:  
10.7563/SSD\_02\_04\_07

### Bibliographical note

Contribution: organisation=ark,FACT1=1<br/>Portfolio EDEND: 2013-12-29<br/>Publisher name: Social Sciences Directory  
Source: researchoutputwizard  
Source ID: 2286  
Research output: Contribution to journal › Article › Scientific

## The Extended Home: On design solutions for community oriented housing

### General information

Publication status: Published  
MoE publication type: B3 Non-refereed article in conference proceedings  
Organisations: School of Architecture

Contributors: Helamaa, A.  
Number of pages: 13  
Pages: 378-391  
Publication date: 2013

#### **Host publication information**

Title of host publication: Communal Pathways to Sustainable Living, Proceedings of the 11th conference of the International Communal Studies Association (ICSA) Findhorn Foundation and Community, Scotland 26 -28 June, 2013  
Publisher: The Findhorn Foundation  
Editor: Meltzer, G.  
ISBN (Electronic): 978-0-9926310-0-0

#### **Publication series**

Name: International Communal Studies Association Conference  
URLs:  
<https://dl.dropboxusercontent.com/u/22754825/Proceedings.pdf>

#### **Bibliographical note**

Contribution: organisation=ark,FACT1=1<br/>Portfolio EDEND: 2013-12-29<br/>Publisher name: The Findhorn Foundation  
Source: researchoutputwizard  
Source ID: 2285  
Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific

### **The Non-Linear City**

#### **General information**

Publication status: Published  
MoE publication type: A4 Article in a conference publication  
Organisations: School of Architecture  
Contributors: Partanen, J.  
Number of pages: 6  
Pages: 112-117  
Publication date: 2013

#### **Host publication information**

Title of host publication: 12th WSEAS International Conference on Non-linear Analysis, Non-linear Systems and Chaos (NOLASC '13), Lamesos, Cyprus, March 21-23 2013  
Editors: Kanarachos, A., Mastorakis, N. E.  
ISBN (Print): 978-1-61804-170-8

#### **Publication series**

Name: International Conference on Non-linear Analysis, Non-linear Systems and Chaos

#### **Bibliographical note**

Contribution: organisation=ark,FACT1=1<br/>Portfolio EDEND: 2013-11-29  
Source: researchoutputwizard  
Source ID: 3098  
Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific > peer-review

### **The Trout, the Stream, and the Letting-be. Alvar Aalto's Contribution to the Poetic Tradition of Architecture**

#### **General information**

Publication status: Published  
MoE publication type: B1 Article in a scientific magazine  
Organisations: School of Architecture  
Contributors: Passinmäki, P.  
Number of pages: 9  
Publication date: 2013  
Peer-reviewed: No

#### **Publication information**

Journal: Alvaraaltoresearch.fi  
ISSN (Print): 2323-6906  
Original language: English

URLs:

<http://www.alvaraaltoresearch.fi/articles/trout-stream-and-letting-be-alvar-aaltos-contribution-poetic/>

<http://www.alvaraaltoresearch.fi/>

#### **Bibliographical note**

Contribution: organisation=ark,FACT1=1<br/>Portfolio EDEND: 2013-06-29<br/>Publisher name: Alvar Aalto Museum

Source: researchoutputwizard

Source ID: 3104

Research output: Contribution to journal > Article > Scientific

#### **Tilamallinnus käyttäjätiedon ja teknisen suunnittelun yhdistäjänä**

##### **General information**

Publication status: Published

MoE publication type: B3 Non-refereed article in conference proceedings

Organisations: School of Architecture

Contributors: Joutsiniemi, A., Mathlin, M., Haapakangas, A., Ruohomäki, V., Lahtinen, M., Airaksinen, M., Holopainen, R., Tuomaala, P.

Number of pages: 6

Publication date: 2013

##### **Host publication information**

Title of host publication: Sisäilmastoseminaari 2013, Messukuskus, Helsinki 13.3.2013

Editors: Säteri, J., Backman, H.

ISBN (Print): 978-952-5236-41-5

##### **Publication series**

Name: SIY Raportti

No.: 31

ISSN (Print): 1237-1866

##### **Bibliographical note**

Contribution: organisation=ark,FACT1=1<br/>Portfolio EDEND: 2013-12-29

Source: researchoutputwizard

Source ID: 2431

Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific

#### **Tyyli -täydennysrakentamisen vaiettu ydinkysymys**

##### **General information**

Publication status: Published

MoE publication type: B2 Part of a book or another research book

Organisations: School of Architecture

Contributors: Koponen, O.

Number of pages: 160

Pages: 90-95

Publication date: 2013

##### **Host publication information**

Title of host publication: Kulttuuriympäristön monet kasvot : puhetta suojelusta ja restauroinnista

Place of publication: Helsinki

Publisher: Suomenlinnan hoitokunta

Editor: Perkkiö, M.

ISBN (Print): 978-951-9437-40-8

##### **Bibliographical note**

Contribution: organisation=ark,FACT1=1<br/>Portfolio EDEND: 2013-11-29

Source: researchoutputwizard

Source ID: 2602

Research output: Chapter in Book/Report/Conference proceeding > Chapter > Scientific

#### **Uusilla menetelmillä kiinni kokemukselliseen tietoon**

##### **General information**

Publication status: Published  
MoE publication type: A1 Journal article-refereed  
Organisations: School of Architecture  
Contributors: Santaoja, M., Leino, H., Chudoba, M., Bamberg, J., Nieminen, J.  
Number of pages: 2  
Pages: 1-3  
Publication date: 2013  
Peer-reviewed: Yes

#### Publication information

Journal: Versus  
Volume: 4  
Issue number: 1  
ISSN (Print): 2242-3443  
Original language: Finnish  
URLs:  
[http://www.ays.fi/versus/pdf/versus\\_4\\_1.pdf](http://www.ays.fi/versus/pdf/versus_4_1.pdf)  
<http://www.ays.fi/versus/>

#### Bibliographical note

Contribution: organisation=ark,FACT1=1<br/>Portfolio EDEND: 2013-12-29<br/>Publisher name: Alue- ja ympäristötutkimuksen seura ry.  
Source: researchoutputwizard  
Source ID: 3361  
Research output: Contribution to journal > Article > Scientific > peer-review

### Villa Ornäsän 7 opetusta

#### General information

Publication status: Published  
MoE publication type: E1 Popularised article, newspaper article  
Organisations: School of Architecture  
Contributors: Saatsi, P.  
Number of pages: 5  
Pages: 42-46  
Publication date: 2013  
Peer-reviewed: Unknown

#### Publication information

Journal: Glorian antiikki  
Issue number: 3  
ISSN (Print): 1238-5654  
Original language: Finnish

#### Bibliographical note

Contribution: organisation=ark,FACT1=1<br/>Portfolio EDEND: 2013-10-29<br/>Publisher name: Sanoma Magazines Finland Corporation  
Source: researchoutputwizard  
Source ID: 3331  
Research output: Contribution to journal > Article > General public

### Yhdyskuntasuunnittelun tulevaisuuksiin tähyämässä

#### General information

Publication status: Published  
MoE publication type: A1 Journal article-refereed  
Organisations: School of Architecture  
Contributors: Joutsiniemi, A., Jääskeläinen, L., Ahonen, A., Roos, J., Paqvalin, R., Reijula, K., Ahonen, A., Tuomioja, E., Lodenius, S., Marjanen, H.  
Pages: 11-55  
Publication date: 2013  
Peer-reviewed: Yes

#### Publication information

Journal: Yhdyskuntasuunnittelu



Volume: 51  
Issue number: 2  
ISSN (Print): 1459-6806  
Original language: Finnish

#### **Bibliographical note**

Contribution: organisation=ark,FACT1=1<br/>Portfolio EDEND: 2013-12-29  
Source: researchoutputwizard  
Source ID: 2430  
Research output: Contribution to journal › Article › Scientific › peer-review

#### **Yhteisöllisyyden siemeniä ilmassa, asiantuntijahaastattelu teokseen**

##### **General information**

Publication status: Published  
MoE publication type: D2 Article in professional manuals or guides or professional information systems or text book material  
Organisations: School of Architecture  
Contributors: Helamaa, A.  
Number of pages: 7  
Pages: 97-103  
Publication date: 2013

##### **Host publication information**

Title of host publication: Tervetuloa tuelevaisuuden kotiin! - Tutkimustuloksia ja näkemyksiä asumisen tulevaisuudesta  
Publisher: Research Oy  
Editors: Karppinen, H., Paloheimo-Koskipää, L.  
ISBN (Print): 978-952-93-2351-7  
ISBN (Electronic): 978-952-93-2352-4

#### **Bibliographical note**

Contribution: organisation=ark,FACT1=1<br/>Portfolio EDEND: 2013-12-29  
Source: researchoutputwizard  
Source ID: 2287  
Research output: Chapter in Book/Report/Conference proceeding › Chapter › Professional

#### **Yllättävää estetiikkaa betonista - TTY:n arkkitehtuurin laitoksen betonistudio 2012**

##### **General information**

Publication status: Published  
MoE publication type: D1 Article in a trade journal  
Organisations: School of Architecture  
Contributors: Pesonen, M.  
Number of pages: 5  
Pages: 74-78  
Publication date: 2013  
Peer-reviewed: Unknown

##### **Publication information**

Journal: Betoni  
Volume: 82  
Issue number: 2  
ISSN (Print): 1235-2136  
Original language: Finnish

#### **Bibliographical note**

Contribution: organisation=ark,FACT1=1<br/>Portfolio EDEND: 2013-10-29<br/>Publisher name: Betoniteollisuus ry  
Source: researchoutputwizard  
Source ID: 3143  
Research output: Contribution to journal › Article › Professional

**"Aika": Taidenäyttely Galleria Kapriisi, 17.10.-4.11.2012**

##### **General information**

Publication status: Published  
MoE publication type: F1 Published independent work of art  
Organisations: School of Architecture  
Contributors: Soini, K.  
Publication date: 2012  
Media of output: Other  
URLs:  
<http://www.kaisasoini.fi>

#### Bibliographical note

Contribution: organisation=ark aht,FACT1=1  
Source: researchoutputwizard  
Source ID: 5336  
Research output: Artistic and non-textual form › Exhibition › Solo art production

### Arkkitehtuuriviikko innosti ammattilaisia ja maallikoita

#### General information

Publication status: Published  
MoE publication type: D1 Article in a trade journal  
Organisations: School of Architecture  
Contributors: Chudoba, M.  
Pages: 14-14  
Publication date: 2012  
Peer-reviewed: Unknown

#### Publication information

Journal: Arkkitehtiutiset  
Volume: 64  
Issue number: 9  
ISSN (Print): 0044-8915  
Original language: Finnish

#### Bibliographical note

Contribution: organisation=ark ars,FACT1=1  
Source: researchoutputwizard  
Source ID: 3975  
Research output: Contribution to journal › Article › Professional

### Askeleita kohti yhteisöasumista : Selvitys yhteisöasumisen muodoista ja toteuttamisesta : MONIKKO-hanke : Moninaisten yhteisöllisten asuin- ja toimintaympäristöjen kehittämispilotit

Kädessäsi on MONIKKO-hankkeen tutkimus selvitys. "MONIKKO – Moninaisten yhteisöllisten asuin- ja toimintaympäristöjen kehittämispilotit" on työ- ja elinkeinoministeriön vuosina 2010 – 2011 tukeman ikärakennemuutosalueiden verkoston (DEMO) yhteistyöhanke. Hanke toteutettiin vuosina 2011 ja 2012. Sen tavoitteena on ollut koota yhteen olemassa olevaa ja tuottaa uutta tietoa yhteisöllisistä asuinympäristöistä, erilaisista yhteisömalleista sekä niiden toteutusmuodoista. Hanke muodostui kahdesta osa-alueesta, selvitys- ja suunnittelutyöstä. Selvitysosiossa tavoitteena oli tarkastella yhteisöllisyyttä asumisessa, erilaisten ympäristöjen ja tilaratkaisujen suhdetta yhteisöllisyyteen. Tavoitteena oli myös selvittää asuinyhteisöjen erilaisia toteutusmuotoja sekä toteutuksen ongelmakohtia. Erityistarkastelun kohteena oli asukkaiden rooli asuinyhteisöjen toteutuksessa. Aineisto muodostui eurooppalaisista toteutetuista asuinyhteisöistä, niihin lähetetystä kyselystä, asukkaiden ryhmähaastatteluista sekä tila-analyyseistä. Selvitysosan tuloksena syntyi tämä kirja. Suunnitteluosiossa laadittujen ideasuunnitelmien tarkoituksena on konkretisoida ja visualisoida yhteisöllisen asumisen potentiaalia Suomessa ja erityisesti hankkeen pilottikunnissa. Hankkeeseen osallistui kuusi DEMO-verkoston kuntaa, Loimaa, Mikkeli, Mänttä-Vilppula, Närpiö, Tampere ja Turku, joihin kuhunkin laadittiin kunnan osoittamalle alueelle ideasuunnitelmat yhteisöllisyyteen ja omatoimisuuteen perustuvista asumisratkaisuista. Suunnitelmat pureutuvat hyvin erilaisten kuntien, asukasryhmien ja rakennuspaikkojen tarpeisiin, ja painopisteet vaihtelevatkin vanhusten tuetusta asumisesta omatoimiseen ryhmärakennuttamiseen ja lähion täydentämiseen. Tavoitteena on, että suunnitelmat toimivat paitsi työkaluina yhteisöllisen asumisen kehitystyön jatkamiselle pilottikunnissa, myös malleina asumisen kehittämiseksi ympäri Suomen. Kunnissa muodostettiin kuntakohtaiset projektiryhmät, jotka koostuivat vaihtelevasti kunnan eri toimialoja edustavista virkamiehistä, kunnallispolitiikoista, palveluasumisen yksiköiden henkilökunnasta sekä paikallisista yrittäjistä ja yhdistystoimijoista. Pyrkimyksenä oli lisätä vuorovaikutteista keskustelua yhteisöasumisen kehittämiseen tärkeistä teemoista kuntaorganisaation sisällä. Suunnittelu- ja selvitystyön ohella hankkeessa toteutettiin yhteisövierailumatka Tanskaan kuntien projektiryhmän jäsenten kanssa lokakuussa 2011, projektiryhmille suunnattu suunnitelmien esittelyseminaari maaliskuussa 2012 sekä kaikille avoin yhteisöllisen asumisen seminaari toukokuussa 2012. Hankkeen tutkijat ovat lisäksi osallistuneet yhteisöasumista käsitteleviin konferensseihin Toursissa Ranskassa maaliskuussa 2012 sekä Berliinissä Saksassa syyskuussa 2012.

### General information

Publication status: Published  
MoE publication type: D4 Published development or research report or study  
Organisations: School of Architecture  
Contributors: Helamaa, A., Pylvänen, R.  
Number of pages: 177  
Publication date: 2012

### Publication information

Publisher: Tampereen teknillinen yliopisto. Arkkitehtuurin laitos  
ISBN (Print): 978-952-15-2981-8  
ISBN (Electronic): 978-952-15-2982-5  
Original language: Finnish

### Publication series

Name: Tampereen teknillinen yliopisto. Arkkitehtuurin laitos. Asuntosuunnittelu. Julkaisu  
Publisher: Tampereen teknillinen yliopisto  
Volume: 6  
ISSN (Print): 2242-4598  
Electronic versions:  
monikko\_askeleita\_kohti\_yhteisoasumista  
URLs:  
<http://urn.fi/URN:ISBN:978-952-15-2982-5>

### Bibliographical note

Contribution: organisation=ark ars,FACT1=1  
Source: researchoutputwizard  
Source ID: 2288  
Research output: Book/Report › Commissioned report › Professional

## Asukkaiden tarpeet ja ekologia asuntoreformin keskiössä (Esko Kahri ym. Asukasnäkökulma kaupunkiasumiseen)

### General information

Publication status: Published  
MoE publication type: B1 Article in a scientific magazine  
Organisations: School of Architecture  
Contributors: Hedman, M.  
Pages: 50-  
Publication date: 2012  
Peer-reviewed: No

### Publication information

Journal: Yhdyskuntasuunnittelu  
Volume: 50  
Issue number: 1  
ISSN (Print): 1459-6806  
Original language: Finnish

### Bibliographical note

Contribution: organisation=ark ars,FACT1=1  
Publisher name: Yhdyskuntasuunnittelu-lehti  
Source: researchoutputwizard  
Source ID: 4170  
Research output: Contribution to journal › Article › Scientific

## Betoni ei ole enää betonia... - TTY:n arkkitehtuurin laitoksen betonistudio 2011

### General information

Publication status: Published  
MoE publication type: D1 Article in a trade journal  
Organisations: School of Architecture  
Contributors: Pesonen, M.  
Pages: 52-55  
Publication date: 2012  
Peer-reviewed: Unknown

### Publication information

Journal: Betoni

Volume: 82

Issue number: 2

ISSN (Print): 1235-2136

Original language: Finnish

URLs:

[http://www.betoni.com/Download/23525/BET1202\\_52-55.pdf](http://www.betoni.com/Download/23525/BET1202_52-55.pdf)

### Bibliographical note

Contribution: organisation=ark ars,FACT1=1

Source: researchoutputwizard

Source ID: 5058

Research output: Contribution to journal › Article › Professional

## Cellular Automata in Urban Spatial Modelling

### General information

Publication status: Published

MoE publication type: A3 Part of a book or another research book

Organisations: School of Architecture

Contributors: Iltanen, S.

Pages: 69-84

Publication date: 2012

### Host publication information

Title of host publication: Agent-Based Models of Geographical Systems

Place of publication: Dordrecht

Publisher: Springer Netherlands

Editors: Heppenstall, A., Crooks, A., See, L., Batty, M.

ISBN (Print): 978-90-481-8926-7

ISBN (Electronic): 978-90-481-8927-4

DOIs:

10.1007/978-90-481-8927-4\_4

### Bibliographical note

ei ut-numeroa 14.8.2013<br/>Contribution: organisation=ark ays,FACT1=1

Source: researchoutputwizard

Source ID: 4300

Research output: Chapter in Book/Report/Conference proceeding › Chapter › Scientific › peer-review

## Chinese Superblock : A Study and Design Tools for Sustainable Urban Development in China

The thesis studies Chinese superblock housing areas, which are exceptionally large and enclosed high-density residential areas. The superblock typology has been the main method for planning and constructing urban housing in China during the past three decades of rapid urbanization. After the Chinese economy opened up in 1978, Chinese-Western co-operation in Chinese projects has continuously increased. The co-operation is challenging due to very different cultural backgrounds. The thesis bridges the gap of the cross-cultural co-operation issues with a study approach respectful of cultural differences. The study enlightens the backgrounds of the superblock housing areas and analyses existing superblocks. The characteristics of the blocks are further explained from a Chinese perspective, through the Chinese culture. The study defines main challenges in relation to sustainable development issues. The superblock housing areas lack in human scale, and diversity of both the built form and the non-built areas. The environments prohibit pedestrianism and poorly meet the needs of contemporary Chinese urban life. Practical design tools have been created from the basis of the study to overcome the challenges. The design tools combine essential Chinese characteristics with two Western sustainable planning theories. The design concepts form a basis to start planning for sustainable urban housing in China.

### General information

Publication status: Published

MoE publication type: D4 Published development or research report or study

Organisations: School of Architecture

Contributors: Nieminen, S.

Number of pages: 96

Publication date: 2012

### Publication information

Publisher: Tampere University of Technology

ISBN (Print): 978-952-15-2782-1  
ISBN (Electronic): 978-952-15-2782-1  
Original language: English

#### **Publication series**

Name: Tampere University of Technology. School of Architecture. Housing Design. Publication  
Publisher: Tampere University of Technology  
No.: 3  
ISSN (Print): 2242-4598  
Electronic versions:  
nieminen.pdf  
URLs:  
<http://urn.fi/URN:ISBN:978-952-15-2782-1>

#### **Bibliographical note**

Contribution: organisation=ark ars,FACT1=1  
Source: researchoutputwizard  
Source ID: 4918  
Research output: Book/Report › Commissioned report › Professional

**deja-vu : Eric Adlercreutz, Nils-Hinrik Aschan - Motelli Marinen laajennus, Tammisaari 1972 : Marine Motel Extension, Tammisaari 1972**

#### **General information**

Publication status: Published  
MoE publication type: D1 Article in a trade journal  
Organisations: School of Architecture  
Contributors: Koponen, O.  
Pages: 82-83  
Publication date: 2012  
Peer-reviewed: Unknown

#### **Publication information**

Journal: Arkkitehti  
Volume: 109  
Issue number: 5  
ISSN (Print): 0783-3660  
Original language: Finnish

#### **Bibliographical note**

Contribution: organisation=ark aht,FACT1=1  
Publisher name: Suomen Arkkitehtiliitto  
Source: researchoutputwizard  
Source ID: 4524  
Research output: Contribution to journal › Article › Professional

#### **Discussion on Accessibility Instruments**

##### **General information**

Publication status: Published  
MoE publication type: A3 Part of a book or another research book  
Organisations: School of Architecture  
Contributors: Hull, A., Papa, E., Silva, C., Joutsiniemi, A.  
Pages: 205-238  
Publication date: 2012

##### **Host publication information**

Title of host publication: Accessibility Instruments for Planning Practice  
Place of publication: Brussels  
Publisher: COST Office  
Editors: Angela, H., Cecilia, S., Luca, B.  
ISBN (Print): 978-989-20-3187-3  
ISBN (Electronic): 978-989-20-3210-8  
URLs:  
<http://www.accessibilityplanning.eu/wp-content/uploads/2012/10/COST-Report-1-FINAL.pdf>

### **Bibliographical note**

ei ut-numeroa 13.8.2013<br/>Contribution: organisation=ark ays,FACT1=1

Source: researchoutputwizard

Source ID: 4242

Research output: Chapter in Book/Report/Conference proceeding › Chapter › Scientific › peer-review

### **Dynaaminen simulaatiomalli**

#### **General information**

Publication status: Published

MoE publication type: B2 Part of a book or another research book

Organisations: School of Architecture

Contributors: Iltanen, S.

Pages: 21-31

Publication date: 2012

#### **Host publication information**

Title of host publication: Kestävät kauppapaikat verkostokaupungissa. Aalto-yliopiston julkaisusarja TIEDE + TEKNOLOGIA

Place of publication: Espoo

Publisher: Aalto-yliopisto. Insinööritieteiden korkeakoulu. Maankäyttötieteiden laitos. Yhdyskuntasuunnittelun tutkimus- ja koulutusryhmä YTK

Editors: Raine, M., Anssi, J., Suvi, N., Simo, S.

ISBN (Print): 978-952-60-4738-6

ISBN (Electronic): 978-952-60-4737-9

URLs:

<https://aaltodoc.aalto.fi/handle/123456789/4775>

<http://urn.fi/URN:ISBN:978-952-60-4737-9>

### **Bibliographical note**

Contribution: organisation=ark ays,FACT1=1

Source: researchoutputwizard

Source ID: 4301

Research output: Chapter in Book/Report/Conference proceeding › Chapter › Scientific

### **"Eurooppa Tampereella" -näyttely aikasyvyyden hahmottamisesta ja sen käsittelystä rakennuskulttuurin tueksi: Galleria Nottbeck, Tampere 9.2.-31.5.2012**

#### **General information**

Publication status: Published

MoE publication type: F1 Published independent work of art

Organisations: School of Architecture

Contributors: Tallqvist, T.

Publication date: 2012

Media of output: Other

#### **Bibliographical note**

Contribution: organisation=ark aht,FACT1=1

Source: researchoutputwizard

Source ID: 5390

Research output: Artistic and non-textual form › Exhibition › Solo art production

### **Exploring complex dynamics with a CA-based urban model**

#### **General information**

Publication status: Published

MoE publication type: A4 Article in a conference publication

Organisations: School of Architecture

Contributors: Partanen, J.

Number of pages: 12

Pages: 257-268

Publication date: 2012

#### **Host publication information**

Title of host publication: Proceedings of CAMUSS, International Symposium on Cellular Automata Modeling for Urban and Spatial Systems, 8-10.11.2012, Oporto, Portugal  
Publisher: Coimbra: Department of Civil Engineering of the University Coimbra  
Editors: Pinto, N., Dourado, J., Natalio, A.  
ISBN (Print): 978-972-96524-8-6

#### Publication series

Name: International Symposium on Cellular Automata Modeling for Urban and Spatial Systems  
Publisher: Coimbra: Department of Civil Engineering of the University Coimbra

#### Bibliographical note

Contribution: organisation=ark,FACT1=1<br/>Portfolio EDEND: 2013-11-29

Source: researchoutputwizard

Source ID: 5023

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

### Heuristic three-level Instrument combining urban Morphology, Mobility, service Environments and Locational Information (HIMMELI)

#### General information

Publication status: Published

MoE publication type: A3 Part of a book or another research book

Organisations: School of Architecture

Contributors: Iltanen, S.

Pages: 77-84

Publication date: 2012

#### Host publication information

Title of host publication: Accessibility Instruments for Planning Practice

Place of publication: Brussels

Publisher: COST Office

Editors: Angela, H., Cecilia, S., Luca, B.

Article number: 3.5

ISBN (Print): 978-989-20-3187-3

ISBN (Electronic): 978-989-20-3210-8

URLs:

<http://www.accessibilityplanning.eu/wp-content/uploads/2012/10/COST-Report-1-FINAL.pdf>

#### Bibliographical note

Ei UT-numeroa 14.8.2013<br/>Contribution: organisation=ark ays,FACT1=1

Source: researchoutputwizard

Source ID: 4302

Research output: Chapter in Book/Report/Conference proceeding › Chapter › Scientific › peer-review

### Hurmaava lähiö. Energiatohokas lähiökorjaaminen -hankkeen loppujulkaisu

The urbanization of Finland was based on suburbs of apartment buildings. Nearly half of the Finnish apartment houses were built in the 1960's and 1970's. These apartment houses were originally planned to be used only 30 years. 40 to 50 years time has passed and there are about half a million apartments like these in the need of different kind of technical repairs. Thus the moment of rehabilitation of the suburbs is now, at the latest. There lie possibilities in this large task of the built environment. As part of the international collaboration for mitigation of the climate change, Finland is committed to reduce its greenhouse gas emissions to a sustainable level. By 2050 80% is aimed to be cut off from the level of 1990's. If suburbs are repaired to become even a little bit more energy-efficient and supportive to sustainable lifestyles, this action has meaning for these national aims merely due to the great amount of suburbs there are to be repaired. The culture of dwelling has changed in 40 years. We need different apartment sizes and types than before. The housing market is lacking many types of urban dwelling such as variations of detached houses in an urban environment. New housing types that are not available elsewhere can be developed in suburbs in pursuance of their renovation. Project ENTELKOR, i.e. "Energy efficient rehabilitation of suburbs of concrete element apartment buildings", has started to map these possibilities of suburb renewal by asking: What has not been explored so far? The search for new research subjects was combined to traditional long term research and development work. This gave birth to four themes: recycling, energy, ecosystem of the city and strategies.

#### General information

Publication status: Published

MoE publication type: C2 Edited books

Organisations: School of Architecture

Contributors: Alatalo, E. (ed.)  
Number of pages: 150  
Publication date: 2012

#### Publication information

Place of publication: Tampere  
Publisher: Tampereen teknillinen yliopisto. Arkkitehtuurin laitos; Tampereen teknillinen yliopisto. Rakennustekniikan laitos; EDGE; Ympäristöministeriö  
ISBN (Print): 978-952-15-2797-5  
ISBN (Electronic): 978-952-15-2798-2  
Original language: Finnish

#### Publication series

Name: Tampereen teknillinen yliopisto. Arkkitehtuurin laitos  
Publisher: Tampereen teknillinen yliopisto. Arkkitehtuurin laitos; Tampereen teknillinen yliopisto. Rakennustekniikan laitos; EDGE; Ympäristöministeriö  
Volume: 7  
ISSN (Print): 1797-4143  
Electronic versions:  
hurmaava\_lahio.pdf  
URLs:  
<http://urn.fi/URN:ISBN:978-952-15-2798-2>

#### Bibliographical note

on esipuhe<br/>Contribution: organisation=ark ars,FACT1=1  
Source: researchoutputwizard  
Source ID: 3843  
Research output: Book/Report > Anthology > Scientific > peer-review

#### Instituutioiden imemänä

#### General information

Publication status: Published  
MoE publication type: B1 Article in a scientific magazine  
Organisations: School of Architecture  
Contributors: Joutsiniemi, A.  
Number of pages: 4  
Pages: 4-7  
Publication date: 2012  
Peer-reviewed: No

#### Publication information

Journal: Yhdyskuntasuunnittelu  
Volume: 50  
Issue number: 3  
ISSN (Print): 1459-6806  
Original language: Finnish

#### Bibliographical note

Contribution: organisation=ark,FACT1=1<br/>Portfolio EDEND: 2013-12-29  
Source: researchoutputwizard  
Source ID: 4361  
Research output: Contribution to journal > Article > Scientific

#### Joensuu Primary School, Joensuu Finland 2006: Architecture Exhibition: New Nordic Architecture, Louisiana Museum of Modern Art, Humlebaek, Denmark, 29.6.-21.10.2012

#### General information

Publication status: Published  
MoE publication type: F3 Artistic part of a non-artistic publication  
Organisations: School of Architecture  
Contributors: Lahdelma, I., Mahlamäki, R.  
Publication date: 2012  
Media of output: Other



#### **Bibliographical note**

Contribution: organisation=ark aht,FACT1=1

Source: researchoutputwizard

Source ID: 4598

Research output: Artistic and non-textual form › Architecture › Art in non-art work

#### **Kansainvälinen mittausleiri, näyttely ja kyläkoulukinkerit**

##### **General information**

Publication status: Published

MoE publication type: B2 Part of a book or another research book

Organisations: School of Architecture

Contributors: Mattila, M.

Pages: 12-14

Publication date: 2012

##### **Host publication information**

Title of host publication: Kyläkoulut : Finn VERNADOC 2011 - Kyläkoulukinkerit

Place of publication: Ruovesi

Publisher: Ruoveden Kotiseutuyhdistys ry; Suomen ICOMOS

Editor: Markku, M.

ISBN (Print): 978-952-67465-1-7

#### **Bibliographical note**

Contribution: organisation=ark aht,FACT1=1

Source: researchoutputwizard

Source ID: 4834

Research output: Chapter in Book/Report/Conference proceeding › Chapter › Scientific

#### **Katsaus betonilähiöiden korjausrakentamiseen Ruotsissa**

##### **General information**

Publication status: Published

MoE publication type: D1 Article in a trade journal

Organisations: School of Architecture, Research group: Built Environment in Transition

Contributors: Huuhka, S.

Pages: 28-35

Publication date: 2012

Peer-reviewed: Unknown

##### **Publication information**

Journal: Betoni

Volume: 82

Issue number: 2

ISSN (Print): 1235-2136

Original language: Finnish

URLs:

[http://www.betoni.com/Download/23520/BET1202\\_28-35.pdf](http://www.betoni.com/Download/23520/BET1202_28-35.pdf)

#### **Bibliographical note**

Contribution: organisation=ark ars,FACT1=1<br/>Publisher name: Suomen betonitieto

Source: researchoutputwizard

Source ID: 4272

Research output: Contribution to journal › Article › Professional

#### **Kaupan typologinen evoluutio dynaamisissa monitoimijaisissa verkostoissa**

##### **General information**

Publication status: Published

MoE publication type: B2 Part of a book or another research book

Organisations: School of Architecture

Contributors: Rantanen, A.

Pages: 32-45

Publication date: 2012

### Host publication information

Title of host publication: Kestävät kauppapaikat verkostokaupungissa. Aalto-yliopiston julkaisusarja TIEDE + TEKNOLOGIA

Place of publication: Espoo

Publisher: Aalto-yliopisto. Insinööritieteiden korkeakoulu. Maankäyttötieteiden laitos. Yhdyskuntasuunnittelun tutkimus- ja koulutusryhmä YTK

Editors: Raine, M., Anssi, J., Suvi, N., Simo, S.

ISBN (Print): 978-952-60-4738-6

ISBN (Electronic): 978-952-60-4737-9

URLs:

<https://aaltodoc.aalto.fi/handle/123456789/4775>

<http://urn.fi/URN:ISBN:978-952-60-4737-9>

### Bibliographical note

Contribution: organisation=ark ays,FACT1=1

Source: researchoutputwizard

Source ID: 5159

Research output: Chapter in Book/Report/Conference proceeding › Chapter › Scientific

## Kauppapaikkojen suunnittelun ja johtamisen välineet kestävässä verkostokaupungissa

### General information

Publication status: Published

MoE publication type: B2 Part of a book or another research book

Organisations: School of Architecture

Contributors: Nenonen, S., Joutsiniemi, A.

Pages: 196-197

Publication date: 2012

### Host publication information

Title of host publication: Kestävät kauppapaikat verkostokaupungissa. Aalto-yliopiston julkaisusarja TIEDE + TEKNOLOGIA

Place of publication: Espoo

Publisher: Aalto-yliopisto. Insinööritieteiden korkeakoulu. Maankäyttötieteiden laitos. Yhdyskuntasuunnittelun tutkimus- ja koulutusryhmä YTK

Editors: Raine, M., Anssi, J., Suvi, N., Simo, S.

ISBN (Print): 978-952-60-4738-6

ISBN (Electronic): 978-952-60-4737-9

URLs:

<https://aaltodoc.aalto.fi/handle/123456789/4775>

<http://urn.fi/URN:ISBN:978-952-60-4737-9>

### Bibliographical note

Contribution: organisation=ark ays,FACT1=1

Source: researchoutputwizard

Source ID: 4911

Research output: Chapter in Book/Report/Conference proceeding › Chapter › Scientific

## Kaupunkien dynamiikka ja simulaatiomallit

### General information

Publication status: Published

MoE publication type: B2 Part of a book or another research book

Organisations: School of Architecture

Contributors: Iltanen, S.

Pages: 198-205

Publication date: 2012

### Host publication information

Title of host publication: Kestävät kauppapaikat verkostokaupungissa. Aalto-yliopiston julkaisusarja TIEDE + TEKNOLOGIA

Place of publication: Espoo

Publisher: Aalto-yliopisto. Insinööritieteiden korkeakoulu. Maankäyttötieteiden laitos. Yhdyskuntasuunnittelun tutkimus- ja koulutusryhmä YTK

Editors: Raine, M., Anssi, J., Suvi, N., Simo, S.  
ISBN (Print): 978-952-60-4738-6  
ISBN (Electronic): 978-952-60-4737-9  
URLs:

<https://aaltodoc.aalto.fi/handle/123456789/4775>

<http://urn.fi/URN:ISBN:978-952-60-4737-9>

#### **Bibliographical note**

Contribution: organisation=ark ays,FACT1=1

Source: researchoutputwizard

Source ID: 4303

Research output: Chapter in Book/Report/Conference proceeding › Chapter › Scientific

### **Keskitehokas asuinrakentaminen - uudenlainen asuntorakentamisen konsepti**

#### **General information**

Publication status: Published

MoE publication type: D1 Article in a trade journal

Organisations: School of Architecture

Contributors: Hedman, M.

Pages: 22-24

Publication date: 2012

Peer-reviewed: Unknown

#### **Publication information**

Journal: RY Rakennettu ympäristö

Volume: 49

Issue number: 1

ISSN (Print): 1457-9510

Original language: Finnish

URLs:

<http://www.rakennustieto.fi/lehdet/ry/index/lehti/69mn940KR.html>

#### **Bibliographical note**

Contribution: organisation=ark ars,FACT1=1  
Publisher name: Rakennustieto Oy; Rakennustarkasturyhdistys RTY ry;  
Rakennustietosäätiö RTS

Source: researchoutputwizard

Source ID: 4171

Research output: Contribution to journal › Article › Professional

### **Keskitehokas rakentaminen. Esimerkkejä keskitehokkaan asuinrakentamisen malleista**

#### **General information**

Publication status: Published

MoE publication type: C2 Edited books

Organisations: School of Architecture

Contributors: Hedman, M. (ed.)

Number of pages: 201

Publication date: 2012

#### **Publication information**

Place of publication: Tampere

Publisher: Tampereen teknillinen yliopisto. Arkkitehtuurin laitos

ISBN (Print): 978-952-15-2755-5

ISBN (Electronic): 978-952-15-2756-2

Original language: Finnish

#### **Publication series**

Name: Tampereen teknillinen yliopisto. Arkkitehtuurin laitos. Asuntosuunnittelu. Julkaisu

Publisher: Tampereen teknillinen yliopisto

Volume: 1

ISSN (Print): 2242-4598

Electronic versions:

[keskitehokas\\_rakentaminen\\_esimerkkeja\\_keskitehokkaan\\_asuinrakentamisen\\_malleista.pdf](#)

URLs:

<http://urn.fi/URN:ISBN:978-952-15-2756-2>

#### **Bibliographical note**

on esipuhe<br/>Contribution: organisation=ark ars,FACT1=1

Source: researchoutputwizard

Source ID: 4172

Research output: Book/Report > Anthology > Scientific > peer-review

**Kilpailutyö esillä kansainvälisessä näyttelyssä: työn nimi Diamonds: E11 EXPO: exhibition of results and implementation, 18.-20.5.2012 SEMPERDEPOT/ATELIERHAUS, Vienna, Austria**

#### **General information**

Publication status: Published

MoE publication type: F3 Artistic part of a non-artistic publication

Organisations: School of Architecture

Contributors: Poutanen, J.

Publication date: 2012

Media of output: Print

#### **Bibliographical note**

Contribution: organisation=ark ars,FACT1=1

Source: researchoutputwizard

Source ID: 5097

Research output: Artistic and non-textual form > Architecture > Art in non-art work > peer-review

#### **Kisailua vai kerman kuorintaa**

#### **General information**

Publication status: Published

MoE publication type: B1 Article in a scientific magazine

Organisations: School of Architecture

Contributors: Joutsiniemi, A., Laine, M. R., Mäenpää, P., Annala, M., Holopainen, T.

Pages: 4-9

Publication date: 2012

Peer-reviewed: No

#### **Publication information**

Journal: Yhdyskuntasuunnittelu

Volume: 50

Issue number: 2

ISSN (Print): 1459-6806

Original language: Finnish

#### **Bibliographical note**

Contribution: organisation=ark ays,FACT1=1<br/>Publisher name: Yhdyskuntasuunnittelu-lehti

Source: researchoutputwizard

Source ID: 4364

Research output: Contribution to journal > Article > Scientific

#### **Koulurakennusten mittaus ja uusikäyttö : TTY:n arkkitehtuurin historian harjoitustöitä**

#### **General information**

Publication status: Published

MoE publication type: B2 Part of a book or another research book

Organisations: School of Architecture

Contributors: Saatsi, P.

Pages: 128-128

Publication date: 2012

#### **Host publication information**

Title of host publication: Kyläkoulut : Finn VERNADOC 2011 - Kyläkoulukinkerit

Place of publication: Ruovesi

Publisher: Suomen ICOMOS, Ruoveden Kotiseutuyhdistys ry

Editor: Markku, M.  
ISBN (Print): 978-952-67465-1-7

#### **Bibliographical note**

Contribution: organisation=ark aht,FACT1=1  
Source: researchoutputwizard  
Source ID: 5241  
Research output: Chapter in Book/Report/Conference proceeding › Chapter › Scientific

#### **Kyläkouluhanke**

##### **General information**

Publication status: Published  
MoE publication type: B2 Part of a book or another research book  
Organisations: School of Architecture  
Contributors: Mattila, M.  
Pages: 10-11  
Publication date: 2012

##### **Host publication information**

Title of host publication: Kyläkoulut : Finn VERNADOC 2011 - Kyläkoulukinkerit  
Publisher: Ruoveden Kotiseutuyhdistys ry; Suomen ICOMOS  
Editor: Mattila, M.  
ISBN (Print): 978-952-67465-1-7

#### **Bibliographical note**

Contribution: organisation=ark aht,FACT1=1  
Source: researchoutputwizard  
Source ID: 4835  
Research output: Chapter in Book/Report/Conference proceeding › Chapter › Scientific

#### **Loimaa - Kohtaamisia ja kulttuuria**

##### **General information**

Publication status: Published  
MoE publication type: D4 Published development or research report or study  
Organisations: School of Architecture  
Contributors: Lankia, S.  
Number of pages: 39  
Publication date: 2012

##### **Publication information**

Place of publication: Tampere  
Publisher: Tampereen teknillinen yliopisto; EDGE; Pirkanmaan liitto; DEMO Ikärakenneneuvosto; Loimaa; Tammerprint Oy  
ISBN (Electronic): 978-952-15-2985-6  
Original language: Finnish  
Electronic versions:  
monikko\_loimaa\_kohtaamisia\_ja\_kulttuuria.pdf  
URLs:  
<http://urn.fi/URN:ISBN:978-952-15-2985-6>

#### **Bibliographical note**

Contribution: organisation=ark ars,FACT1=1  
Source: researchoutputwizard  
Source ID: 4647  
Research output: Book/Report › Commissioned report › Professional

#### **Maalaiskoulu - kylän ensimmäinen julkinen rakennus**

##### **General information**

Publication status: Published  
MoE publication type: B2 Part of a book or another research book  
Organisations: School of Architecture

Contributors: Koponen, O.  
Pages: 20-21  
Publication date: 2012

#### Host publication information

Title of host publication: Kyläkoulut : Finn VERNADOC 2011 - Kyläkoulukinkerit  
Place of publication: Ruovesi  
Publisher: Ruoveden Kotiseutuyhdistys ry; Suomen ICOMOS  
Editor: Markku, M.  
ISBN (Print): 978-952-67465-1-7

#### Bibliographical note

Contribution: organisation=ark aht,FACT1=1  
Source: researchoutputwizard  
Source ID: 4525  
Research output: Chapter in Book/Report/Conference proceeding > Chapter > Scientific

### Maatiaiselämää Porvoonjokilaaksossa

#### General information

Publication status: Published  
MoE publication type: D1 Article in a trade journal  
Organisations: School of Architecture  
Contributors: Saatsi, P.  
Number of pages: 6  
Pages: 4-9  
Publication date: 2012  
Peer-reviewed: Unknown

#### Publication information

Journal: Tuuma. Rakennusperinteen ystävien lehti  
Issue number: 3  
ISSN (Print): 1458-4174  
Original language: Finnish

#### Bibliographical note

Contribution: organisation=ark,FACT1=1<br/>Portfolio EDEND: 2013-10-29  
Source: researchoutputwizard  
Source ID: 5242  
Research output: Contribution to journal > Article > Professional

### Mänttä-Vilppula - Vuosirenkaiden juhlaa

#### General information

Publication status: Published  
MoE publication type: D4 Published development or research report or study  
Organisations: School of Architecture  
Contributors: Sivula, H.  
Number of pages: 43  
Publication date: 2012

#### Publication information

Place of publication: Tampere  
Publisher: Tampereen teknillinen yliopisto; EDGE; Pirkanmaan liitto; DEMO Ikärakenneneuvosto; Mänttä-Vilppula taidekaupunki; Tammerprint Oy  
ISBN (Electronic): 978-952-15-2987-0  
Original language: Finnish  
Electronic versions:  
monikko\_mantta-vilppula\_vuosirenkaiden\_juhlaa.pdf  
URLs:  
<http://urn.fi/URN:ISBN:978-952-15-2987-0>

#### Bibliographical note

Contribution: organisation=ark ars,FACT1=1  
Source: researchoutputwizard

Source ID: 5332

Research output: Book/Report › Commissioned report › Professional

### **Marianne Laiti - pastellimaalauksia: Galleria Leonardo, Tampere 28.1.-22.2.2012**

#### **General information**

Publication status: Published

MoE publication type: F1 Published independent work of art

Organisations: School of Architecture

Contributors: Laiti, M.

Publication date: 2012

Media of output: Other

#### **Bibliographical note**

Contribution: organisation=ark aht,FACT1=1

Source: researchoutputwizard

Source ID: 4638

Research output: Artistic and non-textual form › Exhibition › Solo art production

### **Maritime Centre Vellamo: Design + Art in Greece: 43: 132-133**

#### **General information**

Publication status: Published

MoE publication type: F3 Artistic part of a non-artistic publication

Organisations: School of Architecture

Contributors: Lahdelma, I., Mahlamäki, R.

Publication date: 2012

Media of output: Print

#### **Bibliographical note**

Contribution: organisation=ark aht,FACT1=1

Source: researchoutputwizard

Source ID: 4600

Research output: Artistic and non-textual form › Architecture › Art in non-art work › peer-review

### **Maritime Centre Vellamo: Panorama, architecture newspaper: A hyge Wave: 50-51**

#### **General information**

Publication status: Published

MoE publication type: F3 Artistic part of a non-artistic publication

Organisations: School of Architecture

Contributors: Lahdelma, I., Mahlamäki, R.

Publication date: 2012

Media of output: Print

#### **Bibliographical note**

Contribution: organisation=ark aht,FACT1=1

Source: researchoutputwizard

Source ID: 4601

Research output: Artistic and non-textual form › Architecture › Art in non-art work

### **Maritime Centre Vellamo: Margenes Arquitectura: 4: 32-35**

Norteuropa: Finlandia: Avanto Architects, Lahdelma & Mahlamäki Architects. (Centro Maritimo Vellamo, Kotka, Lahdelma & Mahlamäki Architects p. 34-35)

#### **General information**

Publication status: Published

MoE publication type: F3 Artistic part of a non-artistic publication

Organisations: School of Architecture

Contributors: Lahdelma, I., Mahlamäki, R.

Publication date: 2012

Media of output: Print

URLs:

<http://margenesarquitectura.com/norteuropa.htm>

#### **Bibliographical note**

Contribution: organisation=ark aht,FACT1=1

Source: researchoutputwizard

Source ID: 4599

Research output: Artistic and non-textual form › Architecture › Art in non-art work › peer-review

**Maritime Centre Vellamo; Kotka; Wooden Boat Centre, Kotka; Merikeskus Vellamo; Kotkan puuvenekeskus: Finnish Architecture 08 09, Milano, Italia; Politecnico di Milano, 26.3.- 6.4.2012**

#### **General information**

Publication status: Published

MoE publication type: F1 Published independent work of art

Organisations: School of Architecture

Contributors: Lahdelma, I., Mahlamäki, R.

Publication date: 2012

Media of output: Print

#### **Bibliographical note**

Contribution: organisation=ark aht,FACT1=1

Source: researchoutputwizard

Source ID: 4602

Research output: Artistic and non-textual form › Design › Solo art production

**Meilahden sairaala-alueen aula: Arkkitehti: 3: 34-41**

#### **General information**

Publication status: Published

MoE publication type: F3 Artistic part of a non-artistic publication

Organisations: School of Architecture

Contributors: Lahdelma, I., Mahlamäki, R.

Publication date: 2012

Media of output: Print

#### **Bibliographical note**

Contribution: organisation=ark aht,FACT1=1  
Publisher name: Suomen Arkkitehtiliitto

Source: researchoutputwizard

Source ID: 4603

Research output: Artistic and non-textual form › Architecture › Art in non-art work

**Meilahden sairaala-alueen aula: L'industria della costruzioni, num. 426/2012: 112-116**

#### **General information**

Publication status: Published

MoE publication type: F3 Artistic part of a non-artistic publication

Organisations: School of Architecture

Contributors: Lahdelma, I., Mahlamäki, R.

Publication date: 2012

Media of output: Print

#### **Bibliographical note**

Contribution: organisation=ark aht,FACT1=1

Source: researchoutputwizard

Source ID: 4604

Research output: Artistic and non-textual form › Architecture › Art in non-art work › peer-review

**Meilahden sairaala-alueen pääsisäänkäynti; Puolanjuutalaisten historian museo: Suomen arkkitehtuuria 2010/2011, Arkkitehtuurin museo, Helsinki, 6.6.-30.9.2012**

#### **General information**

Publication status: Published

MoE publication type: F1 Published independent work of art



Organisations: School of Architecture  
Contributors: Lahdelma, I., Mahlamäki, R.  
Publication date: 2012  
Media of output: Print

#### **Bibliographical note**

Contribution: organisation=ark aht,FACT1=1  
Source: researchoutputwizard  
Source ID: 4605  
Research output: Artistic and non-textual form › Design › Solo art production

### **Metabolismi herää unohduksesta. Metabolism awakens from oblivion**

#### **General information**

Publication status: Published  
MoE publication type: D1 Article in a trade journal  
Organisations: School of Architecture  
Contributors: Katainen, J.  
Pages: 80-82  
Publication date: 2012  
Peer-reviewed: Unknown

#### **Publication information**

Journal: Arkkitehti  
Volume: 109  
Issue number: 4  
ISSN (Print): 0783-3660  
Original language: Finnish

#### **Bibliographical note**

Contribution: organisation=ark ars,FACT1=1  
Publisher name: Suomen Arkkitehtiliitto  
Source: researchoutputwizard  
Source ID: 4442  
Research output: Contribution to journal › Article › Professional

### **Mikkeli - Asumista ihmisten ilmoilla**

#### **General information**

Publication status: Published  
MoE publication type: D4 Published development or research report or study  
Organisations: School of Architecture  
Contributors: Savilepo, T.  
Number of pages: 43  
Publication date: 2012

#### **Publication information**

Place of publication: Tampere  
Publisher: Tampereen teknillinen yliopisto; EDGE; Pirkanmaan liitto; DEMO Ikärakenneneuvosto; Mikkelin kaupunki; Tammerprint Oy  
ISBN (Electronic): 978-952-15-2986-3  
Original language: Finnish  
Electronic versions:  
monikko\_mikkeli\_asumista\_ihmisten\_ilmoilla.pdf  
URLs:  
<http://urn.fi/URN:ISBN:978-952-15-2986-3>

#### **Bibliographical note**

Contribution: organisation=ark ars,FACT1=1  
Source: researchoutputwizard  
Source ID: 5287  
Research output: Book/Report › Commissioned report › Professional

### **Monitasoinen verkostokaupunkimalli**

### General information

Publication status: Published  
MoE publication type: B2 Part of a book or another research book  
Organisations: School of Architecture  
Contributors: Joutsiniemi, A., Syrman, S.  
Pages: 15-20  
Publication date: 2012

### Host publication information

Title of host publication: Kestävät kauppapaikat verkostokaupungissa. Aalto-yliopiston julkaisusarja TIEDE + TEKNOLOGIA  
Place of publication: Espoo  
Publisher: Aalto-yliopisto. Insinööritieteiden korkeakoulu. Maankäyttötieteiden laitos. Yhdyskuntasuunnittelun tutkimus- ja koulutusryhmä YTK  
Editors: Raine, M., Anssi, J., Suvi, N., Simo, S.  
ISBN (Print): 978-952-60-4738-6  
ISBN (Electronic): 978-952-60-4737-9  
URLs:  
<https://aaltodoc.aalto.fi/handle/123456789/4775>  
<http://urn.fi/URN:ISBN:978-952-60-4737-9>

### Bibliographical note

Contribution: organisation=ark ays,FACT1=1  
Source: researchoutputwizard  
Source ID: 4365  
Research output: Chapter in Book/Report/Conference proceeding > Chapter > Scientific

## Närpiö - Hyvinvointia yhteisöllisyydestä

### General information

Publication status: Published  
MoE publication type: D4 Published development or research report or study  
Organisations: School of Architecture  
Contributors: Siikaniemi, I.  
Number of pages: 47  
Publication date: 2012

### Publication information

Place of publication: Tampere  
Publisher: Tampereen teknillinen yliopisto; EDGE; Pirkanmaan liitto; DEMO Ikärakenneneuvosto; Närpes stad; Tammerprint Oy  
ISBN (Electronic): 978-952-15-2988-7  
Original language: Finnish  
Electronic versions:  
[monikko\\_narpio\\_hyvinvointia\\_yhteisollisyydesta.pdf](#)  
URLs:  
<http://urn.fi/URN:ISBN:978-952-15-2988-7>

### Bibliographical note

Contribution: organisation=ark ars,FACT1=1  
Source: researchoutputwizard  
Source ID: 5316  
Research output: Book/Report > Commissioned report > Professional

## Pääkirjoitus: Kaupunki vai urbaani ekosysteemi?

### General information

Publication status: Published  
MoE publication type: B1 Article in a scientific magazine  
Organisations: School of Architecture  
Contributors: Joutsiniemi, A.  
Pages: 4-7  
Publication date: 2012  
Peer-reviewed: No

### Publication information

Journal: Yhdyskuntasuunnittelu  
Volume: 50  
Issue number: 1  
ISSN (Print): 1459-6806  
Original language: Finnish

### Bibliographical note

Contribution: organisation=ark:ays,FACT1=1<br/>Publisher name: Yhdyskuntasuunnittelu-lehti  
Source: researchoutputwizard  
Source ID: 4362  
Research output: Contribution to journal > Article > Scientific

## Part V: Comparative Analysis of the Omnipresent Water Fountains

### General information

Publication status: Published  
MoE publication type: B2 Part of a book or another research book  
Organisations: School of Architecture, Department of Chemistry and Bioengineering, Former organisation of the author  
Contributors: Hynynen, A. J., Juuti, P. S., Katko, T. S.  
Pages: 137-212  
Publication date: 2012

### Host publication information

Title of host publication: Water Fountains in the Worldscape  
Place of publication: Kangasala  
Publisher: International Water History Association and Kehrämedia Inc.  
Editors: Ari, J. H., Petri, S. J., Tapio, S. K.  
ISBN (Print): 978-951-98151-8-3

### Bibliographical note

Ei UT-numeroa 14.8.2013<br/>Contribution: organisation=ark:ays,FACT1=0.5<br/>Contribution: organisation=keb:bio,FACT2=0.5  
Source: researchoutputwizard  
Source ID: 4280  
Research output: Chapter in Book/Report/Conference proceeding > Chapter > Scientific

## Puurakentaminen aluetalouden vahvistajana

### General information

Publication status: Published  
MoE publication type: E1 Popularised article, newspaper article  
Organisations: School of Architecture  
Contributors: Hynynen, A.  
Pages: 16-17  
Publication date: 2012  
Peer-reviewed: Unknown

### Publication information

Journal: UCS : Seinäjoen yliopistokeskuksen tiedotuslehti  
Issue number: 2  
ISSN (Print): 1796-0134  
Original language: Finnish

### Bibliographical note

Contribution: organisation=ark:ays,FACT1=1  
Source: researchoutputwizard  
Source ID: 4278  
Research output: Contribution to journal > Article > General public

## Rakennusala kiertää kierrätystä kuin kissa kuumaa puuroa

### General information

Publication status: Published

MoE publication type: D1 Article in a trade journal  
Organisations: School of Architecture, Research group: Built Environment in Transition  
Contributors: Huuhka, S.  
Pages: 26-31  
Publication date: 2012  
Peer-reviewed: Unknown

#### Publication information

Journal: Ympäristö ja terveys  
Volume: 43  
Issue number: 8-9  
ISSN (Print): 0358-3333  
Original language: Finnish

#### Bibliographical note

Contribution: organisation=ark ars,FACT1=1<br/>Publisher name: Suomen Ympäristö- ja Terveysalan Kustannus Oy  
Source: researchoutputwizard  
Source ID: 4273  
Research output: Contribution to journal › Article › Professional

### Rannat Helsingin seudun dynamona : Unelma omaehtoisesta kaupunkitilan tuottamisesta

#### General information

Publication status: Published  
MoE publication type: B2 Part of a book or another research book  
Organisations: Former organisation of the author  
Contributors: Lehtovuori, P.  
Pages: 20-31  
Publication date: 2012

#### Host publication information

Title of host publication: Rantaviivoja : asuinalueita veden äärellä  
Place of publication: Helsinki  
Publisher: Suomen arkkitehtuurimuseo  
Editors: Lahti, J., Paatero, K., Rauske, E.  
ISBN (Print): 978-952-5195-40-8

#### Bibliographical note

in English r=4770<br/>Contribution: organisation=ark,FACT1=1  
Source: researchoutputwizard  
Source ID: 4679  
Research output: Chapter in Book/Report/Conference proceeding › Chapter › Scientific

### Runollisen kaunis hybridirakennus voitti opiskelijakilpailun

#### General information

Publication status: Published  
MoE publication type: D1 Article in a trade journal  
Organisations: School of Architecture  
Contributors: Tikka, H.  
Pages: 32-33  
Publication date: 2012  
Peer-reviewed: Unknown

#### Publication information

Journal: Arkkitehtiutiset  
Volume: 64  
Issue number: 5  
ISSN (Print): 0044-8915  
Original language: Finnish

#### Bibliographical note

Contribution: organisation=ark ars,FACT1=1  
Source: researchoutputwizard  
Source ID: 5428

### Saksalan pikkukoulu - koulusta kodiksi

#### General information

Publication status: Published  
MoE publication type: B2 Part of a book or another research book  
Organisations: School of Architecture  
Contributors: Saatsi, P.  
Pages: 87-92  
Publication date: 2012

#### Host publication information

Title of host publication: Kyläkoulut : Finn VERNADOC 2011 - Kyläkoulukinkerit  
Place of publication: Ruovesi  
Publisher: Ruoveden Kotiseutuyhdistys ry; Suomen ICOMOS  
Editor: Markku, M.  
ISBN (Print): 978-952-67465-1-7

#### Bibliographical note

Contribution: organisation=ark aht,FACT1=1  
Source: researchoutputwizard  
Source ID: 5243  
Research output: Chapter in Book/Report/Conference proceeding › Chapter › Scientific

### Seutukaupunkien kehittämismenetelmä ja menetelmän testaus

#### General information

Publication status: Published  
MoE publication type: B2 Part of a book or another research book  
Organisations: School of Architecture  
Contributors: Hynynen, A., Villanen, M.  
Number of pages: 20  
Pages: 102-121  
Publication date: 2012

#### Host publication information

Title of host publication: Takaisin kartalle : suomalainen seutukaupunki. Kuntaliiton Acta-julkaisusarja  
Place of publication: Helsinki  
Publisher: Suomen Kuntaliitto  
Editor: Ari, H.  
ISBN (Print): 978-952-213-889-7  
ISBN (Electronic): 978-952-213-890-3

#### Bibliographical note

Contribution: organisation=ark ays,FACT1=1  
Source: researchoutputwizard  
Source ID: 4283  
Research output: Chapter in Book/Report/Conference proceeding › Chapter › Scientific

### Shores as dynamos of the Helsinki region : A dream of spontaneous production of urban space

#### General information

Publication status: Published  
MoE publication type: B2 Part of a book or another research book  
Organisations: School of Architecture  
Contributors: Lehtovuori, P.  
Pages: 20-31  
Publication date: 2012

#### Host publication information

Title of host publication: Shorelines : residential areas by the water  
Place of publication: Helsinki  
Publisher: Museum of Finnish Architecture

Editors: Lahti, J., Paatero, K., Rauske, E.  
ISBN (Print): 978-952-5195-41-5

#### **Bibliographical note**

Contribution: organisation=ark,FACT1=1<br/>Portfolio EDEND: 2013-12-29

Source: researchoutputwizard

Source ID: 4680

Research output: Chapter in Book/Report/Conference proceeding › Chapter › Scientific

### **Spatial Simulation Model of Urban Retail System**

#### **General information**

Publication status: Published

MoE publication type: A4 Article in a conference publication

Organisations: School of Architecture

Contributors: Ilтанen, S.

Pages: 133-136

Publication date: 2012

#### **Host publication information**

Title of host publication: 2012 Proceedings of the Symposium on Simulation for Architecture and Urban Planning, March 26-30, 2012, Orlando

Place of publication: Orlando, FL

Publisher: Symposium on Simulation for Architecture and Urban Design

Editors: Nikilovska, L., Attar, R.

#### **Publication series**

Name: Symposium on Simulation for Architecture and Urban Planning

URLs:

<http://www.simaud.org/proceedings/>

#### **Bibliographical note**

ei ut-numeroa 14.8.2013<br/>Contribution: organisation=ark ays,FACT1=1<br/>Publisher name: Symposium on Simulation for Architecture and Urban Design

Source: researchoutputwizard

Source ID: 4304

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

### **Takaisin kartalle. Suomalainen seutukaupunki**

#### **General information**

Publication status: Published

MoE publication type: C2 Edited books

Organisations: School of Architecture

Contributors: Hynynen, A. (ed.)

Number of pages: 125

Publication date: 2012

#### **Publication information**

Place of publication: Helsinki

Publisher: Suomen Kuntaliitto

ISBN (Print): 978-952-213-889-7

ISBN (Electronic): 978-952-213-890-3

Original language: Finnish

#### **Publication series**

Name: Acta

Publisher: Suomen Kuntaliitto

No.: 237

ISSN (Print): 1237-8569

URLs:

[http://shop.kunnat.net/download.php?filename=uploads/acta237\\_sisaltoebook.pdf](http://shop.kunnat.net/download.php?filename=uploads/acta237_sisaltoebook.pdf)

#### **Bibliographical note**

on johdanto<br/>Contribution: organisation=ark ays,FACT1=1

Source: researchoutputwizard  
Source ID: 4279  
Research output: Book/Report › Anthology › Scientific › peer-review

### "Talo on vain yksi kivi". "A House is just one stone"

#### General information

Publication status: Published  
MoE publication type: D1 Article in a trade journal  
Organisations: School of Architecture  
Contributors: Lehtovuori, P.  
Pages: 74-76  
Publication date: 2012  
Peer-reviewed: Unknown

#### Publication information

Journal: Arkkitehti  
Volume: 109  
Issue number: 4  
ISSN (Print): 0783-3660  
Original language: Finnish

#### Bibliographical note

Contribution: organisation=ark ays,FACT1=1<br/>Publisher name: Suomen Arkkitehtiliitto  
Source: researchoutputwizard  
Source ID: 4681  
Research output: Contribution to journal › Article › Professional

### Tampere - Asukaslähtöisyydestä yhteisöllisyyteen

#### General information

Publication status: Published  
MoE publication type: D4 Published development or research report or study  
Organisations: School of Architecture  
Contributors: Järvi, I.  
Number of pages: 53  
Publication date: 2012

#### Publication information

Place of publication: Tampere  
Publisher: Tampereen teknillinen yliopisto; EDGE; Pirkanmaan liitto; DEMO Ikärakenneneuvosto; Tampereen kaupunki  
ISBN (Electronic): 978-952-15-2989-4  
Original language: Finnish  
Electronic versions:  
monikko\_tampere\_asukaslahtoisyydesta\_yhteisollisyyteen.pdf  
URLs:  
<http://urn.fi/URN:ISBN:978-952-15-2989-4>

#### Bibliographical note

Contribution: organisation=ark ays,FACT1=1  
Source: researchoutputwizard  
Source ID: 4340  
Research output: Book/Report › Commissioned report › Professional

### Tampere-pientalo : Esimerkkejä tyypitalon uusista ratkaisumalleista Tampereelle

#### General information

Publication status: Published  
MoE publication type: C2 Edited books  
Organisations: School of Architecture  
Contributors: Hedman, M. (ed.)  
Number of pages: 81  
Publication date: 2012

### Publication information

Place of publication: Tampere  
Publisher: Tampereen teknillinen yliopisto. Arkkitehtuurin laitos  
ISBN (Print): 978-952-15-2851-4  
ISBN (Electronic): 978-952-15-2852-1  
Original language: Finnish  
Electronic versions:  
tampere-pientalo.pdf  
URLs:  
<http://urn.fi/URN:ISBN:978-952-15-2852-1>

### Bibliographical note

on esipuhe<br/>Contribution: organisation=ark ars,FACT1=1  
Source: researchoutputwizard  
Source ID: 4173  
Research output: Book/Report > Anthology > Scientific > peer-review

## Täydennysrakentamisen paradokseja. The paradoxes of infill building

### General information

Publication status: Published  
MoE publication type: D1 Article in a trade journal  
Organisations: School of Architecture  
Contributors: Joutsiniemi, A.  
Pages: 77-79  
Publication date: 2012  
Peer-reviewed: Unknown

### Publication information

Journal: Arkkitehti  
Volume: 109  
Issue number: 4  
ISSN (Print): 0783-3660  
Original language: Finnish

### Bibliographical note

Contribution: organisation=ark ays,FACT1=1<br/>Publisher name: Suomen Arkkitehtiiliitto  
Source: researchoutputwizard  
Source ID: 4363  
Research output: Contribution to journal > Article > Professional

## Temporary uses as a means of experimental urban planning

### General information

Publication status: Published  
MoE publication type: A1 Journal article-refereed  
Organisations: Former organisation of the author  
Contributors: Lehtovuori, P., Ruoppila, S.  
Number of pages: 26  
Pages: 29-54  
Publication date: 2012  
Peer-reviewed: Yes

### Publication information

Journal: SAJ Serbian Architectural Journal  
Issue number: 4  
ISSN (Print): 1821-3952  
Original language: English

### Bibliographical note

Affil. ei TTY<br/>Contribution: organisation=ark,FACT1=1  
Source: researchoutputwizard  
Source ID: 4683  
Research output: Contribution to journal > Article > Scientific > peer-review



## The Mermaid of Helsinki, Finland

### General information

Publication status: Published

MoE publication type: B2 Part of a book or another research book

Organisations: School of Architecture, Department of Chemistry and Bioengineering, Former organisation of the author

Contributors: Hynynen, A. J., Juuti, P. S., Katko, T. S.

Number of pages: 5

Pages: 107-111

Publication date: 2012

### Host publication information

Title of host publication: Water Fountains in the Worldscape

Place of publication: Kangasala

Publisher: International Water History Association and Kehrämedia Inc.

Editors: Ari, J. H., Petri, S. J., Tapio, S. K.

ISBN (Print): 978-951-98151-8-3

### Bibliographical note

Ei UT-numeroa 14.8.2013<br/>Contribution: organisation=ark ays,FACT1=0.5<br/>Contribution: organisation=keb bio,FACT2=0.5

Source: researchoutputwizard

Source ID: 4281

Research output: Chapter in Book/Report/Conference proceeding > Chapter > Scientific

## Towards experiential urbanism

### General information

Publication status: Published

MoE publication type: A1 Journal article-refereed

Organisations: Institute of Society and Space (SOCIS), Former organisation of the author

Contributors: Lehtovuori, P.

Pages: 71-87

Publication date: 2012

Peer-reviewed: Yes

### Publication information

Journal: Critical Sociology

Volume: 38

Issue number: 1

ISSN (Print): 0896-9205

Ratings:

Scopus rating (2012): CiteScore 0.9 SJR 0.425 SNIP 0.986

Original language: English

DOIs:

10.1177/089692051140722

### Bibliographical note

TTY ei Affil.<br/>Contribution: organisation=ark,FACT1=1

Source: researchoutputwizard

Source ID: 4682

Research output: Contribution to journal > Article > Scientific > peer-review

## Turku - Kerrosten kesken

### General information

Publication status: Published

MoE publication type: D4 Published development or research report or study

Organisations: School of Architecture

Contributors: Kangasaho, T.

Number of pages: 39

Publication date: 2012

### Publication information

Place of publication: Tampere

Publisher: Tampereen teknillinen yliopisto; EDGE; Pirkanmaan liitto; DEMO Ikärakenneneuvosto; Turun kaupunki; Tammerprint Oy

ISBN (Electronic): 978-952-15-2990-0

Original language: Finnish

Electronic versions:

monikko\_turku\_kerrosten kesken.pdf

URLs:

<http://urn.fi/URN:ISBN:978-952-15-2990-0>

### Bibliographical note

Poistettu tupla r=682<br/>Contribution: organisation=ark ars,FACT1=1

Source: researchoutputwizard

Source ID: 4409

Research output: Book/Report > Commissioned report > Professional

## Water Fountains in the Worldscape

### General information

Publication status: Published

MoE publication type: C2 Edited books

Organisations: School of Architecture, Department of Chemistry and Bioengineering, Former organisation of the author

Contributors: Hynynen, A. J. (ed.), Juuti, P. S. (ed.), Katko, T. S. (ed.)

Publication date: 2012

### Publication information

Place of publication: Kangasala

Publisher: International Water History Association and Kehrämedia Inc.

ISBN (Print): 978-951-98151-8-3

Original language: English

### Bibliographical note

on johdanto (Prologue s. 11-18, Epilogue s. 213-214)<br/>Contribution: organisation=ark

ays,FACT1=0.5<br/>Contribution: organisation=keb bio,FACT2=0.5

Source: researchoutputwizard

Source ID: 4282

Research output: Book/Report > Anthology > Scientific > peer-review

## 60- ja 70-lukujen matalat tyypitalot ja korjausrakentaminen

### General information

Publication status: Published

MoE publication type: D4 Published development or research report or study

Organisations: School of Architecture

Contributors: Ruotsalainen, S.

Number of pages: 16

Publication date: 2011

### Publication information

Place of publication: Tampere

Publisher: Tampereen teknillinen yliopisto. Arkkitehtuurin laitos

ISBN (Print): 978-952-15-2498-1

ISBN (Electronic): 978-952-15-2499-8

Original language: Finnish

### Publication series

Name: Tampereen teknillinen yliopisto. Arkkitehtuurin laitos. Julkaisu

Publisher: Tampereen teknillinen yliopisto

Volume: 3

ISSN (Print): 1797-4143

Electronic versions:

60-\_ ja\_70-lukujen\_ matalat\_ tyypitalot.pdf

URLs:

<http://urn.fi/URN:NBN:fi:tyy-201011261373>

#### **Bibliographical note**

Contribution: organisation=ark,FACT1=1

Source: researchoutputwizard

Source ID: 7156

Research output: Book/Report > Commissioned report > Professional

### **A Cellular Automata Model for Simulating Local Scale Urban Dynamics**

#### **General information**

Publication status: Published

MoE publication type: A4 Article in a conference publication

Organisations: School of Architecture

Contributors: Partanen, J.

Number of pages: 16

Pages: 1-16

Publication date: 2011

#### **Host publication information**

Title of host publication: 12th International Conference on Computers in Urban Planning and Urban Management CUPUM, Lake Louise, Canada July 5-8, 2011

Place of publication: Lake Louise

Publisher: CUPUM

Editors: Hunt, J. D., Abraham, J.

Article number: 144

#### **Publication series**

Name: International Conference on Computers in Urban Planning and Urban Management CUPUM

Publisher: CUPUM

#### **Bibliographical note**

ei ut-numeroa 26.4.2014<br/>Contribution: organisation=ark ays,FACT1=1

Source: researchoutputwizard

Source ID: 6968

Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific > peer-review

### **Almost nothing**

#### **General information**

Publication status: Published

MoE publication type: B2 Part of a book or another research book

Organisations: School of Architecture

Contributors: Griffiths, G.

Pages: 14-23

Publication date: 2011

#### **Host publication information**

Title of host publication: Wooden Boxes

Editors: Kuhlmann, D., Simmel, C., Griffiths, G.

ISBN (Print): 078-3-902373-93-9

#### **Bibliographical note**

ei ut-numeroa 1.3.2014<br/>Contribution: organisation=ark ays,FACT1=1

Source: researchoutputwizard

Source ID: 5983

Research output: Chapter in Book/Report/Conference proceeding > Chapter > Scientific

### **Ammatin status ja etiikka**

#### **General information**

Publication status: Published

MoE publication type: D1 Article in a trade journal

Organisations: School of Architecture

Contributors: Luoma, J.  
Pages: 42-43  
Publication date: 2011  
Peer-reviewed: Unknown

**Publication information**

Journal: Arkkitehti uutiset  
Volume: 63  
Issue number: 8  
ISSN (Print): 0044-8915  
Original language: Finnish

**Bibliographical note**

Contribution: organisation=ark aht,FACT1=1  
Source: researchoutputwizard  
Source ID: 6670  
Research output: Contribution to journal › Article › Professional

**Arkkitehtuurin kutsukilpailu: Hämeenlinnan Vanajanranta !!-alueen arkkitehtuurikilpailu 29.8. - 31.10.2011**

**General information**

Publication status: Published  
MoE publication type: F1 Published independent work of art  
Organisations: School of Architecture  
Contributors: Lodenius, S.  
Publication date: 2011  
Media of output: Other

**Bibliographical note**

Contribution: organisation=ark ays,FACT1=1  
Source: researchoutputwizard  
Source ID: 6643  
Research output: Artistic and non-textual form › Design › Solo art production

**Arkkitehtuurin kutsukilpailu: Ylöjärven ydinkeskustan suunnittelukilpailu 19.4. - 19.8.2011**

**General information**

Publication status: Published  
MoE publication type: F1 Published independent work of art  
Organisations: School of Architecture  
Contributors: Lodenius, S.  
Publication date: 2011  
Media of output: Other

**Bibliographical note**

Contribution: organisation=ark aht,FACT1=1  
Source: researchoutputwizard  
Source ID: 6642  
Research output: Artistic and non-textual form › Design › Solo art production

**Arkkitehtuurin kutsukilpailu: Vaasan Palosaaren salmen alueen ideakilpailu 19.4.-20.6.2011**

**General information**

Publication status: Published  
MoE publication type: F1 Published independent work of art  
Organisations: School of Architecture  
Contributors: Lodenius, S.  
Publication date: 2011  
Media of output: Other

**Bibliographical note**

Contribution: organisation=ark ars,FACT1=1  
Source: researchoutputwizard  
Source ID: 6641

Research output: Artistic and non-textual form › Design › Solo art production

### **Arkkitehtuurin uusi poetiikka. Fenomenologinen tutkimus teknologian ylittämisen mahdollisuudesta nykyarkkitehtuurissa**

#### **General information**

Publication status: Published  
MoE publication type: G4 Doctoral dissertation (monograph)  
Organisations: School of Architecture  
Contributors: Passinmäki, P.  
Publication date: 2011

#### **Publication information**

Place of publication: Tampere  
Publisher: Tampereen teknillinen yliopisto. Arkkitehtuurin laitos  
ISBN (Print): 978-952-15-2559-9  
Original language: Finnish

#### **Bibliographical note**

Awarding institution: Tampere University of Technology  
Source: researchoutputwizard  
Source ID: 6972  
Research output: Book/Report › Doctoral thesis › Monograph

### **Arkkitehtuurin vaikutus pientalon energiatehokkuuteen. Talo Saunaranta ja 47 variaatiota**

#### **General information**

Publication status: Published  
MoE publication type: D1 Article in a trade journal  
Organisations: School of Architecture  
Contributors: Moisio, M.  
Pages: 32-35  
Publication date: 2011  
Peer-reviewed: Unknown

#### **Publication information**

Journal: RY Rakennettu ympäristö  
Issue number: 2/2011  
Original language: Finnish

#### **Bibliographical note**

Contribution: organisation=ark aht,FACT1=1  
Source: researchoutputwizard  
Source ID: 6816  
Research output: Contribution to journal › Article › Professional

### **Asumiseen tarvitaan ekohumanismia, The Need for Eco-Humanism in Dwelling**

#### **General information**

Publication status: Published  
MoE publication type: A2 Review article in a scientific journal  
Organisations: School of Architecture  
Contributors: Hedman, M.  
Pages: 22-27  
Publication date: 2011  
Peer-reviewed: Yes

#### **Publication information**

Journal: Arkkitehti  
Volume: 108  
Issue number: 4  
ISSN (Print): 0783-3660  
Original language: Finnish

#### **Bibliographical note**

Contribution: organisation=ark ars,FACT1=1

Source: researchoutputwizard

Source ID: 6042

Research output: Contribution to journal › Review Article › Scientific › peer-review

## **CIAV VERNADOC 2010 - Östmark church and smoke cabins**

### **General information**

Publication status: Published

MoE publication type: B2 Part of a book or another research book

Organisations: School of Architecture

Contributors: Mattila, M.

Pages: 7-9

Publication date: 2011

### **Host publication information**

Title of host publication: CIAV VERNADOC 2010: Keski-Skandinavian suomalaiset: Östmarkin kirkko, savutuvat

Place of publication: Helsinki

Publisher: Suomen ICOMOS, kansanrakentamisen komitea

Editor: Mattila, M.

ISBN (Print): 978-951-96602-9-5

### **Bibliographical note**

ei ut-numeroa 9.4.2014<br/>Contribution: organisation=ark aht,FACT1=1

Source: researchoutputwizard

Source ID: 6773

Research output: Chapter in Book/Report/Conference proceeding › Chapter › Scientific

## **Combining Geographical Potential Model with Micro Scale Network Analysis - With an Application of Shopping Centres in Helsinki City Region**

### **General information**

Publication status: Published

MoE publication type: A4 Article in a conference publication

Organisations: School of Architecture

Contributors: Iltanen, S.

Pages: 358-362

Publication date: 2011

### **Host publication information**

Title of host publication: Proceedings of the 19th GIS Research UK Annual Conference, University of Portsmouth with Ordnance Survey, UK, 27.-29.4.2011

Place of publication: Portsmouth

Publisher: GISRUK Conference Series

Editors: Jones, C. E., Pearson, A., Hart, G., Groome, N.

### **Publication series**

Name: GIS Research UK Annual Conference

Publisher: GISRUK Conference Series

### **Bibliographical note**

ei ut-numeroa 15.3.2014<br/>Contribution: organisation=ark ays,FACT1=1

Source: researchoutputwizard

Source ID: 6164

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

## **Combining Urban Morphological Network Analysis with Urban Growth Model SLEUTH**

### **General information**

Publication status: Published

MoE publication type: A4 Article in a conference publication

Organisations: School of Architecture

Contributors: Iltanen, S.

Number of pages: 16

Pages: 1-16  
Publication date: 2011

#### Host publication information

Title of host publication: 12th International Conference on Computers in Urban Planning and Urban Management CUPUM, Lake Louise, Canada July 5-8, 2011  
Place of publication: Lake Louise  
Publisher: CUPUM  
Editors: Hunt, J. D., Abraham, J.  
Article number: 194

#### Publication series

Name: International Conference on Computers in Urban Planning and Urban Management CUPUM  
Publisher: CUPUM

#### Bibliographical note

ei ut-numeroa 15.3.2014<br/>Contribution: organisation=ark ays,FACT1=1  
Source: researchoutputwizard  
Source ID: 6165  
Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

**Comprehensive School Joensuu: The Best School in the World: Seven Finnish Examples from the 21st Century: 54-59**  
978-952-5195-37-8

#### General information

Publication status: Published  
MoE publication type: F3 Artistic part of a non-artistic publication  
Organisations: School of Architecture  
Contributors: Lahdelma, I., Mahlamäki, R., Viiri, H.  
Publication date: 2011  
Media of output: Print

#### Bibliographical note

Suomen rakennustaitteen museon julkaisu<br/>Contribution: organisation=ark aht,FACT1=1  
Source: researchoutputwizard  
Source ID: 6512  
Research output: Artistic and non-textual form › Architecture › Art in non-art work › peer-review

**Decline or revival? Four small to medium-sized towns in Eastern Finland**

#### General information

Publication status: Published  
MoE publication type: B1 Article in a scientific magazine  
Organisations: School of Architecture  
Contributors: Lodenius, S.  
Pages: 35-38  
Publication date: 2011  
Peer-reviewed: No

#### Publication information

Journal: Project Baltia, Shoreline  
Issue number: 12  
Original language: English

#### Bibliographical note

Contribution: organisation=ark ays,FACT1=1  
Source: researchoutputwizard  
Source ID: 6644  
Research output: Contribution to journal › Article › Scientific

**Exactum, Helsinki University**

#### General information

Publication status: Published

MoE publication type: F1 Published independent work of art  
Organisations: School of Architecture  
Contributors: Lahdelma, I., Mahlamäki, R.  
Publication date: 2011  
Media of output: Print

#### **Bibliographical note**

Contribution: organisation=ark aht,FACT1=1  
Source: researchoutputwizard  
Source ID: 6503  
Research output: Artistic and non-textual form › Design › Solo art production

### **Filippiiniläinen vuoristotalo - A mountain house in Patad Ifugao Luzon, Philippines**

#### **General information**

Publication status: Published  
MoE publication type: B2 Part of a book or another research book  
Organisations: School of Architecture  
Contributors: Mattila, M.  
Pages: 198-199  
Publication date: 2011

#### **Host publication information**

Title of host publication: CIAV VERNADOC 2010: Keski-Skandinavian suomalaiset: Östmarkin kirkko, savutuvat  
Place of publication: Helsinki  
Publisher: Suomen ICOMOS, kansanrakentamisen komitea  
Editor: Mattila, M.  
ISBN (Print): 978-951-96602-9-5

#### **Bibliographical note**

Contribution: organisation=ark aht,FACT1=1  
Source: researchoutputwizard  
Source ID: 6774  
Research output: Chapter in Book/Report/Conference proceeding › Chapter › Scientific

### **Hämeenpuiston kahvila, Hämeenpuisto Cafe**

#### **General information**

Publication status: Published  
MoE publication type: B1 Article in a scientific magazine  
Organisations: School of Architecture  
Contributors: Pesonen, M.  
Pages: 42-43  
Publication date: 2011  
Peer-reviewed: No

#### **Publication information**

Journal: Puu - Suomalaista puuarkkitehtuuria ja rakentamista  
Issue number: 2  
ISSN (Print): 0357-9484  
Original language: Finnish  
URLs:  
<http://www.puuinfo.fi>

#### **Bibliographical note**

Contribution: organisation=ark ars,FACT1=1  
Source: researchoutputwizard  
Source ID: 7008  
Research output: Contribution to journal › Article › Scientific

### **ICT-Talo, Turku: Hyödyllistä ja kaunistavaa - Senaatti-kiinteistöjen historia 1811-2011**

#### **General information**

Publication status: Published



MoE publication type: F3 Artistic part of a non-artistic publication  
Organisations: School of Architecture  
Contributors: Lahdelma, I., Mahlamäki, R.  
Publication date: 2011  
Media of output: Print

#### **Bibliographical note**

Contribution: organisation=ark aht,FACT1=1  
Source: researchoutputwizard  
Source ID: 6504  
Research output: Artistic and non-textual form › Architecture › Art in non-art work › peer-review

#### **Inkeriläinen savusauna - Ingrian -Finnish smoke sauna in Ingermanland, Russia**

##### **General information**

Publication status: Published  
MoE publication type: B2 Part of a book or another research book  
Organisations: School of Architecture  
Contributors: Mattila, M.  
Pages: 180-181  
Publication date: 2011

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Title of host publication: CIAV VERNADOC 2010: Keski-Skandinavian suomalaiset: Östmarkin kirkko, savutuvat  
Place of publication: Helsinki  
Publisher: Suomen ICOMOS, kansanrakentamisen komitea  
Editor: Mattila, M.  
ISBN (Print): 978-951-96602-9-5

##### **Bibliographical note**

Contribution: organisation=ark aht,FACT1=1  
Source: researchoutputwizard  
Source ID: 6775  
Research output: Chapter in Book/Report/Conference proceeding › Chapter › Scientific