

## Kylät kehällä. Kyläsuunnittelu kaupunkiseudun ulkokehällä

### General information

Publication status: Published  
MoE publication type: C2 Edited books  
Organisations: School of Architecture  
Contributors: Aaltonen, J. (ed.), Hynynen, A. (ed.), Lodenius, S. (ed.)  
Number of pages: 122  
Publication date: 2010

### Publication information

Place of publication: Tampere  
Publisher: Kantri ry, Pirkan Helmi ry, Pirkanmaan TE-keskus, Tampereen teknillinen yliopisto. EDGE  
ISBN (Print): 978-952-15-2345-8  
Original language: Finnish

### Publication series

Name: Tampereen teknillinen yliopisto. Arkkitehtuurin laitos. EDGE Arkkitehtuuri- ja kaupunkitutkimuslaboratorio  
Publisher: Kantri ry, Pirkan Helmi ry, Pirkanmaan TE-keskus, Tampereen teknillinen yliopisto. EDGE

### Bibliographical note

Contribution: organisation=ark aht,FACT1=1  
Source: researchoutputwizard  
Source ID: 7612  
Research output: Book/Report > Anthology > Scientific > peer-review

## 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

## 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

#### 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

## **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](https://doi.org/10.3390/ijerph14101257)

URLs:

<http://urn.fi/URN:NBN:fi:tyy-201711082123>

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

## **Open source architecture - Johannesburg, South Africa**

### **General information**

Publication status: Published

MoE publication type: A4 Article in a conference publication

Organisations: School of Architecture

Contributors: Alatalo, E.

Number of pages: 11

Pages: 1-11

Publication date: 2010

### **Host publication information**

Title of host publication: Nordic Association of Architectural Research NAAR Annual Conference 2010, From Gesamtkunstwerk to Complexity - Architecture in All Scales, Tampere, Finland, 22.-24.04.2010

### **Bibliographical note**

Contribution: organisation=ark ays,FACT1=1

Source: researchoutputwizard

Source ID: 7661

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

## Human Wiz

### General information

Publication status: Published  
MoE publication type: F1 Published independent work of art  
Organisations: School of Architecture  
Contributors: Alatalo, E., Acharya, K., Hautamäki, J., Tommiska, A.  
Publication date: 2010  
Media of output: Print

### Bibliographical note

Contribution: organisation=ark ays,FACT1=1  
Source: researchoutputwizard  
Source ID: 7664  
Research output: Artistic and non-textual form › Design › Solo art production

## On tiptoes

Exposition publique des projets primes Europan 10, 24-25.5.2010, Neuchatel, Switzerland

### General information

Publication status: Published  
MoE publication type: F1 Published independent work of art  
Organisations: School of Architecture  
Contributors: Alatalo, E., Hauru, J., Osara, V., Pirhonen, O.  
Publication date: 2010  
Media of output: Print

### Bibliographical note

Architectural design: Alatalo, E., Hauru, J., Osara, V. & Pirhonen, O.  
Contribution: organisation=ark ays,FACT1=1  
Source: researchoutputwizard  
Source ID: 7665  
Research output: Artistic and non-textual form › Design › Solo art production

## On tiptoes

Europan 10 results : inventing urbanity : regeneration, revitalization, colonization

### General information

Publication status: Published  
MoE publication type: F1 Published independent work of art  
Organisations: School of Architecture  
Contributors: Alatalo, E., Hauru, J., Osara, V., Pirhonen, O.  
Publication date: 2010  
Media of output: Print  
URLs:  
<http://www.arkitektur.no/?nid=207224>

### Bibliographical note

Architectural design: Alatalo, E., Hauru, J., Osara, V., Pirhonen, O.  
Contribution: organisation=ark ays,FACT1=1  
Source: researchoutputwizard  
Source ID: 7666  
Research output: Artistic and non-textual form › Design › Solo art production

## Personal Trainer: Art Meets Energy Consumption, Pixelache Helsinki Festival 2010, Kiasma 25-28.3.2010

### General information

Publication status: Published  
MoE publication type: F1 Published independent work of art  
Organisations: School of Architecture  
Contributors: Alatalo, E.  
Publication date: 2010  
Media of output: Print

### Bibliographical note

Contribution: organisation=ark ays,FACT1=1

Source: researchoutputwizard  
Source ID: 7663  
Research output: Artistic and non-textual form › Design › Solo art production

### **Vertaisyhiteiskunta: MediaPyhät; Kaunis kansalainen, Galleria Rajatila, 28.12.2010-2.1. 2011, Tampere**

#### **General information**

Publication status: Published  
MoE publication type: F1 Published independent work of art  
Organisations: School of Architecture  
Contributors: Alatalo, E.  
Publication date: 2011  
Media of output: Print

#### **Bibliographical note**

Contribution: organisation=ark ays,FACT1=1  
Source: researchoutputwizard  
Source ID: 5681  
Research output: Artistic and non-textual form › Design › Solo art production

### **Lähiössä piilee erityisiä voimavaroja**

#### **General information**

Publication status: Published  
MoE publication type: D1 Article in a trade journal  
Organisations: School of Architecture  
Contributors: Alatalo, E.  
Pages: 30-31  
Publication date: 2011  
Peer-reviewed: Unknown

#### **Publication information**

Journal: Asu ja rakenna  
Issue number: 5-6/2011  
ISSN (Print): 1237-0703  
Original language: Finnish

#### **Bibliographical note**

Contribution: organisation=ark ays,FACT1=1  
Source: researchoutputwizard  
Source ID: 5680  
Research output: Contribution to journal › Article › Professional

### **Open Source Architecture: Johannesburg, South Africa**

#### **General information**

Publication status: Published  
MoE publication type: A4 Article in a conference publication  
Organisations: School of Architecture  
Contributors: Alatalo, E.  
Pages: 91-92  
Publication date: 2010

#### **Host publication information**

Title of host publication: 24th AESOP Annual Conference, Space is Luxury, Espoo, Finland, 7-10 July 2010  
URLs:  
[http://aesop2010.tkk.fi/pdf/AESOP\\_2010\\_Abstract\\_book.pdf](http://aesop2010.tkk.fi/pdf/AESOP_2010_Abstract_book.pdf)

#### **Bibliographical note**

Contribution: organisation=ark ays,FACT1=1  
Source: researchoutputwizard  
Source ID: 7662  
Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

**Energy efficient building experiment striving for realization, Leppavirta, Finland: Travelling exhibition Architect Award ABF 2009, Sept 2009-April 2010, Minsk (Belarus), Prague, Liberec, Olomouc, Brno and Ostrava (Czech)**

#### **General information**

Publication status: Published  
MoE publication type: F1 Published independent work of art  
Organisations: School of Architecture  
Contributors: Alatalo, E., Osara, V. (.  
Publication date: 2009  
Media of output: Print

#### **Bibliographical note**

Contribution: organisation=ark ays,FACT1=1  
Source: researchoutputwizard  
Source ID: 9721  
Research output: Artistic and non-textual form › Design › Solo art production

#### **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

## Mapping the urban fallows

### General information

Publication status: Published

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

Organisations: School of Architecture

Contributors: Alppi, S.

Pages: 67-75

Publication date: 2010

### Host publication information

Title of host publication: Urban Fallows. Transformations & Breeding Grounds. City Scratching III. Tampere University of Technology. School of Architecture. Publication

Editor: Ylä-Anttila, K.

ISBN (Print): 978-952-15-2490-5

### Bibliographical note

City of Tampere / Creative Tampere, NCC Property development Oy, Ramboll Finland Oy, UPM, City of Akaa, Council of Tampere Region  
Contribution: organisation=ark ays,FACT1=1

Source: researchoutputwizard

Source ID: 7680

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

## 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

#### 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

#### 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](https://doi.org/10.1016/j.landusepol.2020.104552)

Research output: [Contribution to journal](#) › [Article](#) › [Scientific](#) › [peer-review](#)

#### **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

Issue number: 9

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](https://doi.org/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

## 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

### 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

## **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

## **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

## Yhdyskuntarakenne muokkaa lasten ja nuorten liikkumista

### General information

Publication status: Published  
MoE publication type: D1 Article in a trade journal  
Organisations: School of Architecture  
Contributors: Broberg, A., Hynynen, A., Iltanen, S., Kyttä, M., Paronen, O.  
Pages: 10-17  
Publication date: 2011  
Peer-reviewed: Unknown

### Publication information

Journal: Liikunta ja Tiede  
Volume: 48  
Issue number: 2-3  
ISSN (Print): 0358-7010  
Original language: Finnish

### Bibliographical note

Contribution: organisation=ark ays,FACT1=1  
Source: researchoutputwizard  
Source ID: 5805  
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

### Arte in Architettura, Art in Architecture: Of ARCH, International Magazine of Architecture and Design

#### General information

Publication status: Published

MoE publication type: F1 Published independent work of art

Organisations: School of Architecture

Contributors: Callocchia, A., Lahdelma, I.

Publication date: 2010

Media of output: Print

#### Bibliographical note

Callocchia, A.(ed.).Architectural design: Lahdelma, I.Finnish Embassy in Tokyo<br/>Contribution: organisation=ark  
aht,FACT1=1

Source: researchoutputwizard

Source ID: 7781

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

### 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

### 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

### 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

### 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

### 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

### 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

### Kaupunkia etsimässä - Eliel Saarinen Amerikassa 1923-1950

In my dissertation, *Kaupunkia etsimässä – Eliel Saarinen Amerikassa 1923–1950* (Search for a City – Eliel Saarinen in America 1923–1950) Eliel Saarinen's American career is described as a continuation of his career in Finland. The focus is on urban design and planning. Saarinen's career as an urban planner may be followed from the Helsinki railway station (which inspired him to search for solutions to traffic problems) to street plans, international competitions and visionary designs for the future of Helsinki. In the latter, his urban design ideas may be seen in the largest scope of scales: from the city region to the details of housing design. Also in the United States Saarinen's career was marked by a design attitude that used a variety of scales. The city region was taken over by Saarinen in his organic decentralization, but at the same time he took notice of urban details and designed houses, interiors and textiles. In housing design Saarinen used the catalogue of attached houses that he had already researched in Finland, and did not see the need to rethink the spatial solutions to everyday living in his American rowhouse designs. Recurring themes throughout several decades were, for example, similar spatial arrangements in apartment plans, connections between interior and exterior, composition of street space, flowing traffic solutions with a hierarchy of streets and paths and taking into account the larger context connected to the design task. At the same time, the designs show Saarinen's familiarity with the current urban discourse in the United States: block structure became more open and the hierarchical separation of various traffic forms was more important than before. The designer combined modernity with a knowledge of the past. Saarinen was designing a city even when designing one building. Behind the attitude of controlling wholes was the idea of the city as a *Gesamtkunstwerk*, a total work of art. Saarinen saw the different phases of this idea during his career. In the Munkkiniemi-Haaga Plan he appeared as an artist, but in America he was confronted with a new kind of planning context: the problems of dense metropolitan cores and spreading suburbs. Saarinen's solution to both problems was the gradual process of organic decentralization. The city planner's role changed from an artist to the portrayer of processes. The urban region was looked at from above, but at the same time homes were designed and details drawn. Eliel Saarinen's career was one of the most extensive examples of an urban application of the *Gesamtkunstwerk* idea. The American legacy of Saarinen the urban designer consisted of a skyscraper model that influenced urban centers in the United States of the 1920s, the process of organic decentralization that aimed at creating order to metropolitan growth, and the idea of an architect's pedagogical responsibility as an educator of the general public. Education could be furthered by books as well as thoughtfully designed environments. The roles of an urban planner, building designer and educator were all intertwined, as were the various scales of design work. In Eliel Saarinen's designs all scale levels came together to form a whole, which was described by biological analogies in Saarinen's writings. The city was an organism, and both the scalar hierarchies and the inspiration for form search were found in nature. Saarinen's interpretation of the *Gesamtkunstwerk* idea evolved into an interaction and harmony of levels of scale, which guided his design process whether the task was objects or city regions. To his students he especially stressed the importance of taking into account the next higher scale level in design. Mastering scale levels had then – as well as now – an essential importance in architectural design processes.

### General information

Publication status: Published  
MoE publication type: G4 Doctoral dissertation (monograph)  
Organisations: School of Architecture  
Contributors: Chudoba, M.  
Publication date: 2011

### Publication information

Place of publication: Tampere  
Publisher: Tampere University of Technology  
ISBN (Print): 978-952-15-2629-9  
Original language: Finnish

### Publication series

Name: Tampereen teknillinen yliopisto. Arkkitehtuurin laitos. Julkaisu  
Publisher: Tampere University of Technology  
Volume: 6  
ISSN (Print): 1797-4143  
Electronic versions:  
chudoba.pdf



URLs:

<http://urn.fi/URN:ISBN:978-952-15-2870-5>

#### **Bibliographical note**

Awarding institution: Tampere University of Technology

Source: researchoutputwizard

Source ID: 5848

Research output: Book/Report › Doctoral thesis › Monograph

#### **City scale and the Gesamtkunstwerk idea in the work of Eliel Saarinen**

##### **General information**

Publication status: Published

MoE publication type: A4 Article in a conference publication

Organisations: School of Architecture

Contributors: Chudoba, M.

Number of pages: 13

Pages: 1-13

Publication date: 2010

##### **Host publication information**

Title of host publication: Nordic Association of Architectural Research NAAR Annual Conference 2010, From Gesamtkunstwerk to Complexity - Architecture in All Scales, Tampere, Finland, 22.-24.04.2010

#### **Bibliographical note**

Contribution: organisation=ark ays,FACT1=1

Source: researchoutputwizard

Source ID: 7804

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

#### **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

#### **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

**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

### 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 arkkitehtiopiskelijoita 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 osallistajat 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

#### 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

#### 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: Arkkitehtiutiset  
Issue number: 8  
ISSN (Print): 0044-8915  
Original language: Finnish  
URLs:  
[http://www.e-julkaisu.fi/SAFA/au\\_arkkitehtiutiset/8\\_2015/](http://www.e-julkaisu.fi/SAFA/au_arkkitehtiutiset/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: Arkkitehtiutiset  
Issue number: 10  
ISSN (Print): 0044-8915  
Original language: Finnish  
URLs:

[http://www.e-julkaisu.fi/SAFA/au\\_arkkitehtiutiset/10\\_2015/](http://www.e-julkaisu.fi/SAFA/au_arkkitehtiutiset/10_2015/)  
Research output: Contribution to journal › Article › Professional

#### **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

#### **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

#### **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

### 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

### 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

### 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

### 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

### 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

Volume: 2020

Edition: 1

ISBN (Electronic): 978-91-983797-4-7

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

### 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

### 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  
ISSN (Electronic): 2398-9467  
Keywords: sustainable, architecture, education  
Electronic versions:  
AMPS-Proceedings-17-1-Education-Design-and-Practice\_Donovan\_Pelsmakers  
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-202006176133>

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

#### **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

### 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 valtavyälyä 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 valtavyälyä 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 valtavyälyä 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

#### **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](https://doi.org/10.33357/ys.86014)  
Research output: Contribution to journal > Article > Professional

#### **Akaa > Play: development paths for industrial fallow masters's thesis in Architecture, TUT 2008**

#### **General information**

Publication status: Published  
MoE publication type: A3 Part of a book or another research book  
Organisations: School of Architecture  
Contributors: Eskola, S.  
Number of pages: 1  
Pages: 111-111  
Publication date: 2010

#### **Host publication information**

Title of host publication: Urban Fallows. Transformations & Breeding Grounds. City Scratching III. Tampere University of Technology. School of Architecture. Publication  
Editor: Ylä-Anttila, K.

#### **Bibliographical note**

City of Tampere / Creative Tampere, NCC Property development Oy, Ramboll Finland Oy, UPM, City of Akaa, Council of Tampere Region  
Contribution: organisation=ark ars,FACT1=1  
Source: researchoutputwizard  
Source ID: 7902  
Research output: Chapter in Book/Report/Conference proceeding > Chapter > Scientific > peer-review

#### **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 seka 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 puurakennejärjestelmien 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. Puurakennejärjestelmät ryhmiteltiin yhdeksään ryhmään: (1) palkkeihin ja pilareihin, (2) yhdistettyihin palkkeihin, (3) sauvarakenteisiin, (4) ristikkorakenteisiin, (5) kehiin ja kaariin, (6) avaruusristikoihin, (7) kupoleihin, (8) kuorirakenteisiin sekä (9) riippurakenteisiin ja ketjutettuihin rakenteisiin. Eri järjestelmille todettiin olevan luontaista tiettyä 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 kudos, 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 selvitettiin, 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 ajanmukaisuutta 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 esitetyjä 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

## 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

### 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

### **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](#)

### **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

### **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., Echeverria 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

### **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

### **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

### **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

### **Eternal optimism? Ethics explained away**

#### **General information**

Publication status: Published  
MoE publication type: A4 Article in a conference publication  
Organisations: School of Architecture  
Contributors: Griffiths, G.  
Number of pages: 10  
Pages: 1-10  
Publication date: 2010

#### **Host publication information**

Title of host publication: Nordic Association of Architectural Research NAAR Annual Conference 2010, From Gesamtkunstwerk to Complexity - Architecture in All Scales, Tampere, Finland, 22.-24.04.2010

#### **Bibliographical note**

Contribution: organisation=ark ays,FACT1=1

Source: researchoutputwizard

Source ID: 7955

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

#### **Lähiöt - uusiutuva luonnonvara**

##### **General information**

Publication status: Published

MoE publication type: A2 Review article in a scientific journal

Organisations: School of Architecture

Contributors: Hagan, H.

Pages: 13-13

Publication date: 2010

Peer-reviewed: Yes

##### **Publication information**

Journal: Asu ja rakenna

Issue number: 4

ISSN (Print): 1237-0703

Original language: Finnish

#### **Bibliographical note**

Contribution: organisation=ark ars,FACT1=1

Source: researchoutputwizard

Source ID: 7978

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

#### **Raahen Kummatti - lähiön muodonmuutos purkamalla**

##### **General information**

Publication status: Published

MoE publication type: A2 Review article in a scientific journal

Organisations: School of Architecture

Contributors: Hagan, H.

Pages: 14-15

Publication date: 2010

Peer-reviewed: Yes



### Publication information

Journal: Asu ja rakenna  
Issue number: 4  
ISSN (Print): 1237-0703  
Original language: Finnish

### Bibliographical note

Contribution: organisation=ark ars,FACT1=1  
Source: researchoutputwizard  
Source ID: 7979

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

### 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

### Östersundomin osayleiskaavan kaupunkiekologinen ohjelma

#### General information

Publication status: Published  
MoE publication type: D4 Published development or research report or study  
Organisations: School of Architecture  
Contributors: Haila, Y., Joutsiniemi, A., Kervinen, M., Lodenius, S.  
Number of pages: 86  
Publication date: 2010

#### Publication information

Place of publication: Helsinki  
Publisher: Helsingin kaupunkisuunnitteluvirasto  
ISBN (Print): 978-952-223-761-3  
Original language: Finnish

#### Publication series

Name: Helsingin kaupunkisuunnitteluviraston yleissuunniteluosaston selvityksiä  
Publisher: Helsingin kaupunkisuunnitteluvirasto  
Volume: 2010:3  
ISSN (Print): 1458-9664  
URLs:

[http://www.hel2.fi/ksv/julkaisut/yos\\_2010-3.pdf](http://www.hel2.fi/ksv/julkaisut/yos_2010-3.pdf)

#### Bibliographical note

Contribution: organisation=ark ays,FACT1=1  
Source: researchoutputwizard  
Source ID: 7981

Research output: Book/Report › Commissioned report › Professional

### **Kulttuurimaiseman asukit - suunnitelmia Saarioispuolelle**

#### **General information**

Publication status: Published  
MoE publication type: D4 Published development or research report or study  
Organisations: School of Architecture  
Contributors: Hakula, A.  
Number of pages: 76  
Publication date: 2010

#### **Publication information**

Place of publication: Tampere  
Publisher: Kantri ry, Pirkan Helmi ry, Pirkanmaan TE-keskus, Tampereen teknillinen yliopisto. EDGE  
Original language: Finnish

#### **Publication series**

Name: Kylät kehällä -hanke 2009  
Publisher: Kantri ry, Pirkan Helmi ry, Pirkanmaan TE-keskus, Tampereen teknillinen yliopisto. EDGE

#### **Bibliographical note**

Contribution: organisation=ark ays,FACT1=1  
Source: researchoutputwizard  
Source ID: 7989  
Research output: Book/Report › Commissioned report › Professional

### **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  
Portfolio EDEND: 2015-01-10  
Source: researchoutputwizard  
Source ID: 405  
Research output: Contribution to journal › Article › Professional

### **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

#### 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

#### 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\\_kestitehokkaan\\_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

### **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

### **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<br/>Publisher name: Yhdyskuntasuunnittelu-lehti

Source: researchoutputwizard

Source ID: 4170

Research output: Contribution to journal > Article > Scientific

### **Yhteisöasumista Tammelaan; Näyttely TTY:n arkkitehtuurin laitoksen harjoitustöistä: Sampolan työväenopiston aula, Tampere 26.4.-16.5.2010**

#### **General information**

Publication status: Published

MoE publication type: F1 Published independent work of art  
Organisations: School of Architecture  
Contributors: Hedman, M., Helamaa, A.  
Publication date: 2010  
Media of output: Print

#### **Bibliographical note**

Poistettu tupla r=1269<br/>Contribution: organisation=ark ars,FACT1=1  
Source: researchoutputwizard  
Source ID: 8027  
Research output: Artistic and non-textual form › Design › Solo art production

#### **Summer-Container**

##### **General information**

Publication status: Published  
MoE publication type: A3 Part of a book or another research book  
Organisations: School of Architecture  
Contributors: Hedman, M.  
Pages: 26-31  
Publication date: 2010

##### **Host publication information**

Title of host publication: Minimum Dwelling Spaces  
Editor: Broto, E.  
ISBN (Print): 9788496969773  
URLs:  
<http://www.ribabookshops.com/item/minimum-dwelling-spaces/69193/>

#### **Bibliographical note**

Contribution: organisation=ark ars,FACT1=1  
Source: researchoutputwizard  
Source ID: 8025  
Research output: Chapter in Book/Report/Conference proceeding › Chapter › Scientific › peer-review

#### **Minimikoti -näyttely: Megapolis 2025**

##### **General information**

Publication status: Published  
MoE publication type: F1 Published independent work of art  
Organisations: School of Architecture  
Contributors: Hedman, M., Helamaa, A.  
Publication date: 2010  
Media of output: Print  
URLs:  
<http://megapolis2025.org/>

#### **Bibliographical note**

Contribution: organisation=ark ars,FACT1=1  
Source: researchoutputwizard  
Source ID: 8026  
Research output: Artistic and non-textual form › Exhibition › Solo art production

#### **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<br/>Publisher name: Rakennustieto Oy; Rakennustarkasturyhdistys RTY ry; Rakennustietosäätiö RTS

Source: researchoutputwizard

Source ID: 4171

Research output: Contribution to journal › Article › Professional

### 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

### 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

## 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

## 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

## 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

#### Tottijärven kunnalla, maankäyttösuunnitelma Tottijärven kylälle

##### General information

Publication status: Published

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

Organisations: School of Architecture

Contributors: Heikkilä, H.

Number of pages: 36

Publication date: 2010

##### Publication information

Place of publication: Tampere

Publisher: Kantri ry, Pirkan Helmi ry, Pirkanmaan TE-keskus, Tampereen teknillinen yliopisto. EDGE

Original language: Finnish

##### Publication series

Name: Kylät kehällä -hanke, Kyläsuunnittelu kaupunkiseudun ulkokehällä

Publisher: Kantri ry, Pirkan Helmi ry, Pirkanmaan TE-keskus, Tampereen teknillinen yliopisto. EDGE

##### Bibliographical note

Contribution: organisation=ark ays,FACT1=1

Source: researchoutputwizard

Source ID: 8028

Research output: Book/Report > Commissioned report > Professional

#### 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

### **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

### **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

### 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 ryhmähaastattelusta sekä tila-analyyseistä. Selvitysosian 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 tähtäävistä 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

## Minimikoti - näyttely: Kuopion asuntomessut 16.7.-15.8.2010

### General information

Publication status: Published  
MoE publication type: F1 Published independent work of art  
Organisations: School of Architecture  
Contributors: Helamaa, A., Hedman, M.  
Publication date: 2010  
Media of output: Other  
URLs:  
<http://www.minimikoti.fi/homes.php>

### Bibliographical note

Helamaa, A. & Hedman, M.(toim).<br/>Contribution: organisation=ark ars,FACT1=1  
Source: researchoutputwizard  
Source ID: 8059  
Research output: Artistic and non-textual form › Exhibition › Solo art production

## 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](https://doi.org/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

## 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

#### Tulevaisuuden toivojen torni. Opiskelija-asuintalo Ikituuri, Turku. Student Housing Ikituuri, Turku

#### General information

Publication status: Published  
MoE publication type: D1 Article in a trade journal  
Organisations: School of Architecture  
Contributors: Helamaa, A.  
Pages: 55-56  
Publication date: 2011  
Peer-reviewed: Unknown

#### 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: 6070  
Research output: Contribution to journal › Article › Professional

#### 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

#### **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

#### **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

#### **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

**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

### **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

### **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

### 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 Arkkitehtiiliitto 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

### 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

### **Decayed, developed, defined. Comparing the development paths of two urban fallow areas in New York City**

#### **General information**

Publication status: Published

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

Organisations: School of Architecture

Contributors: Hietakorpi, L.

Pages: 55-65

Publication date: 2010

#### **Host publication information**

Title of host publication: Urban Fallows. Transformations & Breeding Grounds. City Scratching III. Tampere University of Technology. School of Architecture. Publication

Editor: Ylä-Anttila, K.

ISBN (Print): 978-952-15-2490-5

#### **Bibliographical note**

City of Tampere / Creative Tampere, NCC Property development Oy, Ramboll Finland Oy, UPM, City of Akaa, Council of Tampere Region<br/>Contribution: organisation=ark ays,FACT1=1

Source: researchoutputwizard

Source ID: 8076

Research output: Chapter in Book/Report/Conference proceeding > Chapter > 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 oppituolessa ja siellä professori Olli-Paavo Koposeen. Oppituolessamme 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 syvällisemmällä, 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

## 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

## 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

## 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 it 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

### **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

#### **Kehdosta hautaan tuhannen rakennuksen kautta?**

##### **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: 4-5

Publication date: 2010

Peer-reviewed: Unknown

##### **Publication information**

Journal: Arkkitehtiopiskelija

Issue number: 1/2010

ISSN (Print): 1795-5335

Original language: Finnish

#### **Bibliographical note**

Contribution: organisation=ark ars,FACT1=1

Source: researchoutputwizard

Source ID: 8131

Research output: Contribution to journal › Article › Professional

#### **Purkubetoni kierrätetään tienpohjiksi - tulevaisuudessa ehkä myös taloiksi;Demolished concrete reused in road base courses - maybe also in houses in future**

##### **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: 50-55

Publication date: 2010

Peer-reviewed: Unknown

##### **Publication information**

Journal: Betoni

Issue number: 2/2010

ISSN (Print): 1235-2136

Original language: English

URLs:

<http://www.betoni.com/download.aspx?intFileID=2240&intLinkedFromObjectID=11026>

#### **Bibliographical note**

Contribution: organisation=ark ays,FACT1=1

Source: researchoutputwizard

Source ID: 8132

Research output: Contribution to journal › Article › Professional

#### **Korjausrakentamisen esimerkkejä Saksassa**

##### **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: 44-49  
Publication date: 2009  
Peer-reviewed: Unknown

#### Publication information

Journal: *Betoni*  
Issue number: 4  
ISSN (Print): 1235-2136  
Original language: Finnish

#### Bibliographical note

Contribution: organisation=ark ays,FACT1=1  
Source: researchoutputwizard  
Source ID: 10211  
Research output: Contribution to journal › Article › Professional

### 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 Arkkitehtiiliitto  
Source: researchoutputwizard  
Source ID: 2354  
Research output: Contribution to journal › Article › Professional

### 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

### **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

### **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

### **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

### 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

### 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

## 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

## 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

URLs:

<http://urn.fi/URN:NBN:fi:tyy-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

#### **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"



### **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:ty-201612294924>

Research output: Contribution to journal › Article › 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

### **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

### **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

### **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

### **Rakennuksia tyhjillään 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/Nakokulma\\_Rakennuksia\\_tyhjillaan\\_keskuks%2841812%29](#)

Research output: Contribution to journal > Article > Professional

#### 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

### **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

### **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

### **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

### **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

### **Vanha rakennuskanta: kestävä kaupungistumisen 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

### 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>

## **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

## **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 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

#### **The Fountain A Harbinger of a New Era in Case Tampere**

##### **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., Juuti, P., Katko, T.

Pages: 63-70

Publication date: 2011

##### **Host publication information**

Title of host publication: Water Fountains in the Cityscape. Essays in Public Works History

Place of publication: Kansas City, MO

Publisher: Public Works Historical Society

Editors: Hynynen, A. J., Juuti, P. S., Katko, T. S.

ISBN (Print): 978-1-60675-029-2

##### **Publication series**

Name: Essays in Public Works History

Publisher: Public Works Historical Society

Volume: 30  
ISSN (Print): 1047-5257

#### **Bibliographical note**

Ei ut-numeroa 15.3.2014<br/>Contribution: organisation=ark ays,FACT1=0.33<br/>Contribution: organisation=keb bio,FACT2=0.67

Source: researchoutputwizard

Source ID: 6156

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

### **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

### **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

### **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

#### 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

#### Teknologiaa ja terminaaliarkkitehtuuria. Technology and Terminal Architecture

##### General information

Publication status: Published  
MoE publication type: A1 Journal article-refereed  
Organisations: School of Architecture  
Contributors: Hynynen, A.  
Pages: 24-27  
Publication date: 2010  
Peer-reviewed: Yes

##### Publication information

Journal: Arkkitehti  
Issue number: 2/2010

ISSN (Print): 0783-3660  
Original language: English

#### **Bibliographical note**

Contribution: organisation=ark ays,FACT1=1<br/>Publisher name: Suomen Arkkitehtiiliitto  
Source: researchoutputwizard  
Source ID: 8136  
Research output: Contribution to journal > Article > Scientific > peer-review

#### **Johdanto: kauppakeskukset osana kestäväää kulutusta ja kaupunkirakennetta**

##### **General information**

Publication status: Published  
MoE publication type: B2 Part of a book or another research book  
Organisations: Research group: Urban Laboratory, School of Architecture, Aalto University  
Contributors: Hynynen, A., Rantanen, A., Kanninen, V., Mäntysalo, R.  
Pages: 6-16  
Publication date: 2011

##### **Host publication information**

Title of host publication: Kauppakeskukset osana kestäväää kulutusta ja kaupunkirakennetta. Yhdyskuntasuunnittelun tutkimus- ja koulutuskeskuksen julkaisuja C  
Place of publication: Espoo  
Publisher: Aalto-yliopisto  
Editors: Kanninen, V., Rantanen, A.  
ISBN (Print): 978-952-60-3541-3  
URLs:  
<http://lib.tkk.fi/Reports/2010/isbn9789526035420.pdf>

##### **Bibliographical note**

Poistettu tupla r=1264<br/>Contribution: organisation=ark ays,FACT1=1  
Source: researchoutputwizard  
Source ID: 6158  
Research output: Chapter in Book/Report/Conference proceeding > Chapter > Scientific

#### **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

#### **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

### 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%B6t%C3%A4/kuinka-tehdaan-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

### Scenic urbanism

#### General information

Publication status: Published  
MoE publication type: A3 Part of a book or another research book  
Organisations: School of Architecture  
Contributors: Hynynen, A.  
Pages: 47-53  
Publication date: 2010

#### Host publication information

Title of host publication: Urban Fallows. Transformations & Breeding Grounds. City Scratching III. Tampere University of Technology. School of Architecture. Publication  
Editor: Ylä-Anttila, K.  
ISBN (Print): 978-952-15-2490-5

#### Bibliographical note

City of Tampere / Creative Tampere, NCC Property development Oy, Ramboll Finland Oy, UPM, City of Akaa, Council of Tampere Region<br/>Contribution: organisation=ark ays,FACT1=1  
Source: researchoutputwizard  
Source ID: 8135  
Research output: Chapter in Book/Report/Conference proceeding › Chapter › Scientific › peer-review

## 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

## 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

## Voisiko aluesuunnittelu olla designia?

### General information

Publication status: Published

MoE publication type: E1 Popularised article, newspaper article

Organisations: School of Architecture

Contributors: Hynynen, A.

Publication date: 2011

Peer-reviewed: Unknown

### Publication information

Journal: Helsingin sanomat

ISSN (Print): 0355-2047

Original language: Finnish

### Bibliographical note

Poistettu tupla r=4000<br/>Contribution: organisation=ark ays,FACT1=1  
Source: researchoutputwizard  
Source ID: 6154  
Research output: Contribution to journal › Article › General public

## Keskikokoinen metapolis? Näköaloja osaamisvetoiseen kehittämiseen Seinäjoella

### 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: 34  
Publication date: 2011

### Publication information

Place of publication: Tampere  
Publisher: University of Tampere  
ISBN (Print): 978-951-44-8448-3  
Original language: Finnish

### Publication series

Name: Tampereen yliopisto. Alueellisen kehittämisen tutkimusyksikkö. Sente työraportteja  
Publisher: Tampereen yliopisto  
Volume: 32/2011  
ISSN (Print): 1457-9995  
URLs:  
[http://www.uta.fi/laitokset/yhdt/sente/julkaisut/tyopaperit/Keskikokoinen\\_metapolis.pdf](http://www.uta.fi/laitokset/yhdt/sente/julkaisut/tyopaperit/Keskikokoinen_metapolis.pdf)

### Bibliographical note

Contribution: organisation=ark ays,FACT1=1  
Source: researchoutputwizard  
Source ID: 6157  
Research output: Book/Report › Commissioned report › Professional

## 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

## 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

## Water Fountains in the Cityscape

### 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: 2011

### Publication information

Place of publication: Kansas City,MO  
Publisher: Public Works Historical Society  
ISBN (Print): 978-1-60675-029-2  
Original language: English

### Publication series

Name: Essays in Public Works History  
Publisher: Public Works Historical Society  
Volume: 30  
ISSN (Print): 1047-5257

### Bibliographical note

poistettu tupla r=3993. ei ut-numeroa 15.3.2014<br/>Contribution: organisation=ark ays,FACT1=0.33<br/>Contribution: organisation=keb bio,FACT2=0.67  
Source: researchoutputwizard  
Source ID: 6155  
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

### 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

### Puu-Hubi: Perinteestä uusiin innovaatioihin

Maailmalla on menossa puurakentamisen buumi, jolle ennakoidaan pitkää ikää ja valoisaa 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 tulemistä.

#### 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

### 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

### 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

### 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

### 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

### 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%B6t%C3%A4/puusta-potkua-kuntien-kehitt%C3%A4miseen-1.1871205>

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

### 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

### **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

### **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

#### 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](https://doi.org/10.1515/esrp-2016-0007)  
Research output: Contribution to journal › Review 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/asepanseudet-ja-osaamisvetoisen-kaupunkikehittamisen-kolmas-aalto/>

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

### **Urbanismi voimavarana. Kaupungistumisen näkymiä provinssissa.**

Kaupungistuminen on maailmanlaajuinen vahva megatrendi, joka liitetään ilmiönä useimmiten suurkaupunkeihin. Helposti unohtuu urbanisaation hennempi 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 keskustauudistuksina. Tulevaisuudessa maaseutu ja kaupunki voidaan limittää 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 laatutekijät 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://epliitto.fi/images/D\\_5\\_Tehtava\\_Etela-Pohjanmaalla.pdf](https://epliitto.fi/images/D_5_Tehtava_Etela-Pohjanmaalla.pdf)

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

### **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

#### 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

#### 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., Pitkäkoski, 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

#### 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:ty-201908232005>  
Research output: Contribution to journal › Article › Scientific › peer-review

#### **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

#### **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/ilmio03/kulttuurikeskus/kulttuurin-tahtikarttoja/>  
Research output: Contribution to journal › Comment/debate › General public

#### **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://ilkkapohjalainen.fi/mielipide/yleisolta/lukijoilta-kaupunki-koronan-jalkeen-1.5096011>

Research output: [Contribution to journal](#) > [Comment/debate](#) > [General public](#)

### 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](https://doi.org/10.1177/0143624418754386)

Research output: [Contribution to journal](#) > [Article](#) > [Scientific](#) > [peer-review](#)

### 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

### Ritvala raikaa - historiaa ja nykyaikaa; Ritvalan kylän maankäyttösuunnitelma

#### General information

Publication status: Published  
MoE publication type: D4 Published development or research report or study  
Organisations: School of Architecture  
Contributors: Iivari-Hirvelä, M.  
Number of pages: 67  
Publication date: 2010

#### Publication information

Place of publication: Tampere  
Publisher: Kantri ry, Pirkan Helmi ry, Pirkanmaan TE-keskus, Tampereen teknillinen yliopisto. EDGE  
Original language: Finnish

#### Publication series

Name: Kylät kehällä -hanke 2009  
Publisher: Kantri ry, Pirkan Helmi ry, Pirkanmaan TE-keskus, Tampereen teknillinen yliopisto. EDGE

#### Bibliographical note

Contribution: organisation=ark ays,FACT1=1  
Source: researchoutputwizard  
Source ID: 8145  
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

### **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

### **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: Iltanen, 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

#### **Diplomityönäyttely; Kohti uutta arkkitehtuuria. Arkkitehtiopiskelijoiden diplomitöitä kolmesta koulusta: Suomen Rakennustaiteen museo, Helsinki 13.4.- 5.6.2005**

#### **General information**

Publication status: Published

MoE publication type: F1 Published independent work of art

Organisations: Yhdyskuntasuunnittelu

Contributors: Iltanen, S.

Publication date: 2005

Media of output: Print

#### **Bibliographical note**

Contribution: organisation=ays,FACT1=1

Source: researchoutputwizard

Source ID: 18455

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

#### **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

#### **Uutta Arkkitehtuuria: Tampereen pääkirjasto Metso 2007**

#### **General information**

Publication status: Published

MoE publication type: F1 Published independent work of art

Organisations: Yhdyskuntasuunnittelu

Contributors: Iltanen, S.

Publication date: 2007

Media of output: Print

#### **Bibliographical note**

Contribution: organisation=ays,FACT1=1

Source: researchoutputwizard  
Source ID: 14398  
Research output: Artistic and non-textual form › Design › Solo art production

### **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

### **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

### **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

### 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

### Kauppakeskukset verkostokaupungissa

#### 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: 30-33  
Publication date: 2011

#### Host publication information

Title of host publication: Kauppakeskukset osana kestäväää kulutusta ja kaupunkirakennetta. Yhdyskuntasuunnittelun tutkimus- ja koulutuskeskuksen julkaisuja C

Place of publication: Espoo  
Publisher: Aalto-yliopisto  
Editors: Kanninen, V., Rantanen, A.  
ISBN (Print): 978-952-60-3541-3  
URLs:  
<http://lib.tkk.fi/Reports/2010/isbn9789526035420.pdf>

#### **Bibliographical note**

Contribution: organisation=ark ays,FACT1=1  
Source: researchoutputwizard  
Source ID: 6166  
Research output: Chapter in Book/Report/Conference proceeding › Chapter › Scientific

#### **2009 Helsinki - eurooppalainen metropoli, METROPOLITAN HORIZONS: Kaupunkitutkimusnäyttely Laituri - näyttelytilassa, Helsinki 17.4.-15.5.2009**

#### **General information**

Publication status: Published  
MoE publication type: F1 Published independent work of art  
Organisations: School of Architecture  
Contributors: Iltanen, S.  
Publication date: 2009  
Media of output: Print

#### **Bibliographical note**

Contribution: organisation=ark ays,FACT1=1  
Source: researchoutputwizard  
Source ID: 10230  
Research output: Artistic and non-textual form › Design › Solo art production

#### **Mouhijärven kirjasto - suunnitelmasta toteutukseen.**

#### **General information**

Publication status: Published  
MoE publication type: D4 Published development or research report or study  
Organisations: Yhdyskuntasuunnittelu  
Contributors: Iltanen, S.  
Publication date: 2004

#### **Publication information**

Publisher: Unknown Publisher  
Original language: Finnish

#### **Bibliographical note**

Contribution: organisation=ays,FACT1=1  
Source: researchoutputwizard  
Source ID: 20253  
Research output: Book/Report › Commissioned report › Professional

#### **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

#### **Mouhijärven kirjasto**

##### **General information**

Publication status: Published

MoE publication type: A1 Journal article-refereed

Organisations: Yhdyskuntasuunnittelu

Contributors: Iltanen, S.

Publication date: 2007

Peer-reviewed: Yes

##### **Publication information**

Journal: Puulehti

Issue number: 2/2007

Original language: Finnish

##### **Bibliographical note**

Contribution: organisation=ays,FACT1=1

Source: researchoutputwizard

Source ID: 14397

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

#### **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: GISRUUK Conference Series

Editors: Jones, C. E., Pearson, A., Hart, G., Groome, N.

##### **Publication series**

Name: GIS Research UK Annual Conference

Publisher: GISRUUK 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

#### **Sleuth -simulaatiomallin soveltaminen maankäytön muutosten ja skenaarioiden hallinnassa**



### General information

Publication status: Published  
MoE publication type: A1 Journal article-refereed  
Organisations: School of Architecture  
Contributors: Iltanen, S.  
Pages: 24-40  
Publication date: 2010  
Peer-reviewed: Yes

### Publication information

Journal: Yhdyskuntasuunnittelu  
Issue number: 2  
ISSN (Print): 1459-6806  
Original language: Finnish

### Bibliographical note

Contribution: organisation=ark ays,FACT1=1  
Source: researchoutputwizard  
Source ID: 8149  
Research output: Contribution to journal › Article › Scientific › peer-review

## Shopping Centre Morphologies: Location, Accessibility, Integration - A Case Study of Shopping Malls in Helsinki and Tampere City Regions

### General information

Publication status: Published  
MoE publication type: A4 Article in a conference publication  
Organisations: School of Architecture  
Contributors: Iltanen, S., Rantanen, A.  
Pages: 22-27  
Publication date: 2011

### Host publication information

Title of host publication: Urban Morphology and the Post-Carbon City, the 18th International Seminar on Urban Form ISUF 2011, Montreal, Canada 26-29 August 2011  
Place of publication: Montreal  
Publisher: Concordia University

### Publication series

Name: International Seminar on Urban Form ISUF  
Publisher: Concordia University  
URLs:  
[http://geography.ssc.uwo.ca/faculty/gilliland/ISUF2011\\_FullPapers.htm](http://geography.ssc.uwo.ca/faculty/gilliland/ISUF2011_FullPapers.htm)

### Bibliographical note

ei ut-numeroa 15.3.2014<br/>Contribution: organisation=ark ays,FACT1=1  
Source: researchoutputwizard  
Source ID: 6167  
Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

## 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

## Urbaanin kesannot Tampereella

### General information

Publication status: Published

MoE publication type: B1 Article in a scientific magazine

Organisations: School of Architecture

Contributors: Jäntti, A.

Pages: 10-11

Publication date: 2010

Peer-reviewed: No

### Publication information

Journal: Arkkitehti uutiset

Issue number: 12/2010

ISSN (Print): 0044-8915

Original language: Finnish

### Bibliographical note

Contribution: organisation=ark ays,FACT1=1

Source: researchoutputwizard

Source ID: 8191

Research output: Contribution to journal > Article > Scientific

## 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\\_asukaslaitisyydesta\\_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

### Utta 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:

Utta\_arkkitehtuuria\_kuntien\_tilahallintaan.pdf

URLs:

<http://urn.fi/URN:ISBN:978-952-15-3289-4>

### Bibliographical note

Contribution: organisation=ark,FACT1=1  
Portfolio EDEND: 2014-09-16

Source: researchoutputwizard

Source ID: 601

Research output: Book/Report › Commissioned report › Professional

### 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

## 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

## Nykykaupunki ja suunnittelun projektiharha

### 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: Joutsiniemi, A.  
Number of pages: 24  
Pages: 80-103  
Publication date: 2010

### Host publication information

Title of host publication: APOLI 2010 Helsingin arkkitehtuuripoliittinen ohjelma 2010

Editors: Jääskeläinen, L., Jaskanen, L., Saarholma, M., Viertiö, S.

ISBN (Print): 978-952-223-730-9

URLs:

<http://tinyurl.com/2wbvrvu>

### Bibliographical note

Contribution: organisation=ark ays,FACT1=1

Source: researchoutputwizard

Source ID: 8230

### **Päätoimittajalta: Klikkejä imagiaarisessa kaupungissa**

#### **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: 2011  
Peer-reviewed: No

#### **Publication information**

Journal: Yhdyskuntasuunnittelu  
Volume: 49  
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: 6236  
Research output: Contribution to journal › Article › Scientific

### **Ojankaivajien valtakunnassa/In the realm of the ditchers**

#### **General information**

Publication status: Published  
MoE publication type: A1 Journal article-refereed  
Organisations: School of Architecture  
Contributors: Joutsiniemi, A.  
Pages: 65-67  
Publication date: 2010  
Peer-reviewed: Yes

#### **Publication information**

Journal: Arkkitehti  
Issue number: 2/2010  
ISSN (Print): 0783-3660  
Original language: Finnish

#### **Bibliographical note**

Contribution: organisation=ark ays,FACT1=1<br/>Publisher name: Suomen Arkkitehtiilitto  
Source: researchoutputwizard  
Source ID: 8231  
Research output: Contribution to journal › Article › Scientific › peer-review

### **Nollahypoteesina kunta**

#### **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: 2011  
Peer-reviewed: No

#### **Publication information**

Journal: Yhdyskuntasuunnittelu  
Volume: 49  
Issue number: 3

ISSN (Print): 1459-6806  
Original language: Finnish

#### **Bibliographical note**

Contribution: organisation=ark ays,FACT1=1<br/>Publisher name: Yhdyskuntasuunnittelu-lehti  
Source: researchoutputwizard  
Source ID: 6235  
Research output: Contribution to journal › Article › Scientific

#### **Henkilökohtaista**

##### **General information**

Publication status: Published  
MoE publication type: B1 Article in a scientific magazine  
Organisations: School of Architecture  
Contributors: Joutsiniemi, A.  
Pages: 5-7  
Publication date: 2010  
Peer-reviewed: No

##### **Publication information**

Journal: Yhdyskuntasuunnittelu  
Issue number: 2010:3  
ISSN (Print): 1459-6806  
Original language: Finnish

#### **Bibliographical note**

Pääkirjoitus<br/>Contribution: organisation=ark ays,FACT1=1  
Source: researchoutputwizard  
Source ID: 8226  
Research output: Contribution to journal › Article › Scientific

#### **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

#### **Kaupungin koodi ja innovaation paikka**

##### **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: 2010

Peer-reviewed: No

#### Publication information

Journal: Yhdyskuntasuunnittelu

Volume: 48

Issue number: 4

ISSN (Print): 1459-6806

Original language: Finnish

#### Bibliographical note

Contribution: organisation=ark:ays,FACT1=1<br/>Publisher name: Yhdyskuntasuunnittelu-lehti

Source: researchoutputwizard

Source ID: 8229

Research output: Contribution to journal > Article > Scientific

**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:ays,FACT1=1<br/>Portfolio

EDEND: 2013-12-29

Source: researchoutputwizard

Source ID: 2428

Research output: Contribution to journal > Article > Scientific

**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





### **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

### **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

### **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

### **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

#### Becoming metapolis - A configurational approach

Becoming Metapolis develops the argument that the modern city is a highly diverse and heterogeneous structure, something beyond the traditional idea of the monocentric structures that were developed during the industrial revolution and before. In essence, the modern city is polycentric to the point where its diversity needs to be recognised in the variety of its parts and the structure of its whole. In this sense, the modern city is 'beyond the polis' - which indeed the term 'metapolis' suggests. To make sense of such structures, the concept of accessibility is developed at many levels, and it is argued that the ideas of space syntax, with its focus on defining the city across many levels in terms of its patterns of influence through the depth of its networks, is a powerful way of describing and perhaps even explaining the diversity that is the metapolis.

#### General information

Publication status: Published  
MoE publication type: G4 Doctoral dissertation (monograph)  
Organisations: School of Architecture  
Contributors: Joutsiniemi, A.  
Publication date: 2010

#### Publication information

Place of publication: Tampere  
Publisher: Tampereen teknillinen yliopisto  
ISBN (Print): 978-952-15-2311-3  
Original language: English

#### Publication series

Name: Datutop  
Publisher: Tampereen teknillinen yliopisto  
Volume: 32  
ISSN (Print): 0359-7105  
Electronic versions:  
joutsiniemi.pdf  
URLs:  
<http://urn.fi/URN:NBN:fi:tty-201102031031>

#### Bibliographical note

Awarding institution: Tampere University of Technology  
Source: researchoutputwizard  
Source ID: 8225  
Research output: Book/Report > Doctoral thesis > Monograph

#### 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

#### **Kolmas kerta toden sanoo**

##### **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: 2011  
Peer-reviewed: No

##### **Publication information**

Journal: Yhdyskuntasuunnittelu  
Volume: 49  
Issue number: 4  
ISSN (Print): 1459-6806  
Original language: Finnish

##### **Bibliographical note**

Contribution: organisation=ark ays,FACT1=1<br/>Publisher name: Yhdyskuntasuunnittelu-lehti  
Source: researchoutputwizard  
Source ID: 6234  
Research output: Contribution to journal > Article > Scientific

#### **Kaupungin kiusalliset detaljit ja robustit ratkaisut**

##### **General information**

Publication status: Published  
MoE publication type: B1 Article in a scientific magazine  
Organisations: School of Architecture  
Contributors: Joutsiniemi, A.  
Pages: 6-8  
Publication date: 2010  
Peer-reviewed: No

##### **Publication information**

Journal: RY Rakennettu ympäristö  
Issue number: 4  
ISSN (Print): 1457-9510  
Original language: Finnish  
URLs:  
<http://www.rakennustietolehdet.fi>

##### **Bibliographical note**

Contribution: organisation=ark ays,FACT1=1  
Source: researchoutputwizard  
Source ID: 8227  
Research output: Contribution to journal > Article > Scientific

## **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

## **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

## **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

## **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

### **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

### **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

### **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

## 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

## 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/>

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

## 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

### **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

### **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

### **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:tty-201606304320>

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:tyy-201804041457>

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

## **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

## **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

## 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

## Lusto, The Finnish Forest Museum and Forest Information Centre, Punkaharju

### General information

Publication status: Published

MoE publication type: F1 Published independent work of art

Organisations: School of Architecture

Contributors: Kaira, M., Lahdelma, I., Mahlamäki, R.

Publication date: 2011

Media of output: Print

#### **Bibliographical note**

Contribution: organisation=ark aht,FACT1=1

Source: researchoutputwizard

Source ID: 6262

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

#### **Kansainvälisiä maisemia**

##### **General information**

Publication status: Published

MoE publication type: D1 Article in a trade journal

Organisations: School of Architecture

Contributors: Kaituri, A.

Pages: 48-48

Publication date: 2011

Peer-reviewed: Unknown

##### **Publication information**

Journal: Arkkitehtiutiset

Volume: 63

Issue number: 2

ISSN (Print): 0044-8915

Original language: Finnish

#### **Bibliographical note**

Contribution: organisation=ark ars,FACT1=1

Source: researchoutputwizard

Source ID: 6264

Research output: Contribution to journal › Article › Professional

#### **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: Perkiö, M.

ISBN (Print): 978-951-9437-40-8

#### **Bibliographical note**

Contribution: organisation=ark,FACT1=1  
Portfolio EDEND: 2013-11-29

Source: researchoutputwizard

Source ID: 2458

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

#### **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

### Johdanto: Arkkitehtiotiskelijat 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

### 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

#### **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 spoliation 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](https://doi.org/10.1177/1359183517742946)  
URLs:

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

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

#### **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

#### 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

#### 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

## 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

### 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

## 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

## 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

## 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:juu-201907033559>

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

### 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 viehätys: 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

### Suomen aluerakenteen ja liikennejärjestelmän kehityskuva : Ennakointiteemojen ja tulevaisuuskuvioiden 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

### Liikennepalvelumallit ja vaikutusten arviointi. Liite 2, Tampereen teknillisen yliopiston tutkimusraportti

#### General information

Publication status: Published

MoE publication type: B2 Part of a book or another research book

Organisations: Department of Business Information Management and Logistics, School of Architecture

Contributors: Kalenoja, H., Kallionpää, E., Moisala, A., Ylä-Anttila, K.

Pages: 1-143

Publication date: 2011

#### Host publication information

Title of host publication: Sähköiset ajoneuvot kehäradan syöttö- ja asiointiliikenteessä. Syöky -tutkimushankkeen loppuraportti

Place of publication: Helsinki

Publisher: METROPOLIA AMMATTIKORKEAKOULU

ISBN (Print): 978-952-5797-51-0

#### Bibliographical note

Contribution: organisation=tlo,FACT1=0.5<br/>Contribution: organisation=ark ays,FACT2=0.5

Source: researchoutputwizard

Source ID: 6268

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

### 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>

## 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

## Kauppakeskukset osana kestävää kulutusta ja kaupunkirakennetta

### General information

Publication status: Published  
MoE publication type: C2 Edited books  
Organisations: School of Architecture, Aalto University  
Contributors: Kanninen, V. (ed.), Rantanen, A. (ed.)  
Publication date: 2010

### Publication information

Place of publication: Espoo  
Publisher: Aalto-yliopisto  
ISBN (Print): 978-952-60-3541-3  
Original language: Finnish

### Publication series

Name: Yhdyskuntasuunnittelun tutkimus- ja koulutuskeskuksen julkaisuja. C  
Publisher: Aalto-yliopisto  
Volume: 82  
ISSN (Print): 1455-7754  
URLs:  
<http://lib.tkk.fi/Reports/2010/isbn9789526035420.pdf>

### Bibliographical note

Contribution: organisation=ark ays,FACT1=1  
Source: researchoutputwizard  
Source ID: 8280  
Research output: Book/Report › Anthology › Scientific › peer-review

## Johtopäätökset: kestävä kauppakeskus

### General information

Publication status: Published  
MoE publication type: B2 Part of a book or another research book  
Organisations: School of Architecture, Aalto University

Contributors: Kanninen, V., Rantanen, A.  
Pages: 54-59  
Publication date: 2011

#### Host publication information

Title of host publication: Kauppakeskukset osana kestävää kulutusta ja kaupunkirakennetta. Yhdyskuntasuunnittelun tutkimus- ja koulutuskeskuksen julkaisuja C  
Place of publication: Espoo  
Publisher: Aalto-yliopisto  
Editors: Kanninen, V., Rantanen, A.  
ISBN (Print): 978-952-60-3541-3  
URLs:  
<http://lib.tkk.fi/Reports/2010/isbn9789526035420.pdf>

#### Bibliographical note

Contribution: organisation=ark ays,FACT1=1  
Source: researchoutputwizard  
Source ID: 6287  
Research output: Chapter in Book/Report/Conference proceeding › Chapter › Scientific

### Uusi arkkitehtuuri/The New Architecture

#### General information

Publication status: Published  
MoE publication type: F1 Published independent work of art  
Organisations: School of Architecture  
Contributors: Karala, S., Hietakorpi, L., Manka, J., Poutanen, J., Hyyppä, A., Virtanen, J.  
Publication date: 2011  
Media of output: Print

#### Bibliographical note

Contribution: organisation=ark ars,FACT1=1  
Source: researchoutputwizard  
Source ID: 6300  
Research output: Artistic and non-textual form › Design › Solo art production

### 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

### 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

#### **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

#### **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

#### **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

## **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

## **Multistory timber apartment buildings are becoming common in forested Finland - Results of resident surveys point the way to the future of multistory 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

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

## **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

#### **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

#### **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

## 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

## 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

## 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

### **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

### **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:  
<https://proofer.faktor.fi/epaper/Puu318/>  
Research output: Contribution to journal › Article › Professional

### **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

### **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

### **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

### **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

### Pikkukaupunkien virikekirja

#### General information

Publication status: Published

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

Organisations: School of Architecture

Contributors: Karppinen, S., Hynynen, A., Korkka, A., Pylvänen, R.

Number of pages: 110

Publication date: 2010

#### Publication information

Place of publication: Tampere

Publisher: KOKO-ohjelman DEMO- ja MAL-verkostot, Tampereen teknillinen yliopisto. EDGE arkkitehtuuri- ja kaupunkitutkimuslaboratorio, Ylä-Pirkanmaan seutuyhdistys

ISBN (Print): 978-952-15-2423-3

Original language: Finnish

#### Bibliographical note

Contribution: organisation=ark ays,FACT1=1

Source: researchoutputwizard

Source ID: 8300

Research output: Book/Report › Commissioned report › Professional

### 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<br/>Publisher name: Suomen Arkkitehtiliitto

Source: researchoutputwizard

Source ID: 4442

Research output: Contribution to journal › Article › Professional

### 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

### The development vision of Tulli Area. Masters's Thesis in Architecture, TUT 2008

#### General information

Publication status: Published  
MoE publication type: A3 Part of a book or another research book  
Organisations: School of Architecture  
Contributors: Kiviranta, M.  
Number of pages: 1  
Pages: 109-109  
Publication date: 2010

#### Host publication information

Title of host publication: Urban Fallows. Transformations & Breeding Grounds. City Scratching III. Tampere University of Technology. School of Architecture. Publication  
Editor: Ylä-Anttila, K.  
ISBN (Print): 978-952-15-2490-5

#### Bibliographical note

City of Tampere / Creative Tampere, NCC Property development Oy, Ramboll Finland Oy, UPM, City of Akaa, Council of Tampere Region  
Contribution: organisation=ark ays,FACT1=1  
Source: researchoutputwizard  
Source ID: 8379  
Research output: Chapter in Book/Report/Conference proceeding › Chapter › Scientific › peer-review

### Lahdelma & Mahlamäki Oy:lle voitto korkeatasoisessa Oulun Kastellin kilpailussa: Arkkitehtiuutiset

#### General information

Publication status: Published  
MoE publication type: F1 Published independent work of art  
Organisations: School of Architecture  
Contributors: Kjisik, H., Lahdelma, I., Mahlamäki, R.  
Publication date: 2010  
Media of output: Print

#### Bibliographical note

Contribution: organisation=ark aht,FACT1=1  
Source: researchoutputwizard  
Source ID: 8384  
Research output: Artistic and non-textual form › Design › Solo art production

### Näkemyksiä maaseudun tulevaisuuden maankäytöstä: Raportti Sitran Maamerkitohjelman maankäyttötyöpajasta

#### General information

Publication status: Published  
MoE publication type: D4 Published development or research report or study  
Organisations: School of Architecture  
Contributors: Kolehmainen, J., Seppälä, M., Hynynen, A., Ranta, T., Uitto, A.  
Number of pages: 9  
Publication date: 2011

#### Publication information

Place of publication: Tampere  
Publisher: Tampereen yliopisto, Tampereen teknillinen yliopisto, MDI  
Original language: Finnish  
URLs:

<http://www.sitra.fi/NR/rdonlyres/758A4C0D-1C64-4287-A9B3-EED4A9FC4DE6/0/Maank%C3%A4ytt%C3%B6raportti.pdf>

#### **Bibliographical note**

Contribution: organisation=ark ays,FACT1=1

Source: researchoutputwizard

Source ID: 6402

Research output: Book/Report > Commissioned report > Professional

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

The poster presents an overview of the H2020 project 'Circular Construction in Regenerative Cities' (CIRCulIT), 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

#### **Yritysten sijoittuminen ja yhdyskuntarakenne**

##### **General information**

Publication status: Published

MoE publication type: B2 Part of a book or another research book

Organisations: School of Architecture, Suomen ympäristökeskus SYKE - Finnish Environment Institute, Aalto University

Contributors: Kontio, P., Rantanen, A., Simola, A., Jääskeläinen, R.

Pages: 72-99

Publication date: 2010

##### **Host publication information**

Title of host publication: Autoriippuvainen yhdyskuntarakenne ja sen vaihtoehdot. Tutkimushankkeen loppuraportti. YTK:n julkaisu B

Editors: Kanninen, V., Kontio, P., Mäntysalo, R., Ristimäki, M.  
ISBN (Print): 978-952-60-3534-5  
ISBN (Electronic): 978-952-60-3535-2  
URLs:  
<http://lib.tkk.fi/Reports/2010/isbn9789526035352.pdf>

#### **Bibliographical note**

Contribution: organisation=ark ays,FACT1=1  
Source: researchoutputwizard  
Source ID: 8424

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

#### **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

#### **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: Perkiö, 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

#### 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

#### When Alvar Aalto found his own voice - Why I think Paimio tuberculosis sanatorium should be on the world heritage list

##### General information

Publication status: Published  
MoE publication type: B3 Non-refereed article in conference proceedings  
Organisations: School of Architecture  
Contributors: Koponen, O.  
Number of pages: 3  
Pages: 112-114  
Publication date: 2010

##### Host publication information

Title of host publication: Integrity and authenticity in modern movement architecture - Case Paimio hospital. International expert seminar 1-2 October in 2009 in the Paimio Hospital  
Editor: Salastie, R.  
ISBN (Print): 978-952-67465-0-0

##### Bibliographical note

Contribution: organisation=ark aht,FACT1=1  
Source: researchoutputwizard  
Source ID: 8427  
Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific

#### 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<br/>Publisher name: Suomen Arkkitehtiliitto  
Source: researchoutputwizard  
Source ID: 4524  
Research output: Contribution to journal › Article › 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 Arkkitehtiliitto  
Source: researchoutputwizard  
Source ID: 2601  
Research output: Contribution to journal › Article › Professional

### **Salokunnan seurakuntatalo 1960, Timo Penttilä/Salokunta's parish house**

#### **General information**

Publication status: Published  
MoE publication type: A1 Journal article-refereed  
Organisations: School of Architecture  
Contributors: Koponen, O.  
Pages: 76-76  
Publication date: 2009  
Peer-reviewed: Yes

#### **Publication information**

Journal: Arkkitehti  
Issue number: 6/2009  
ISSN (Print): 0783-3660  
Original language: English

#### **Bibliographical note**

Contribution: organisation=ark aht,FACT1=1<br/>Publisher name: Suomen Arkkitehtiliitto  
Source: researchoutputwizard



Source ID: 10504

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

### **Pekka Mäki, ASA-huset, Åbo Akademi**

#### **General information**

Publication status: Published

MoE publication type: A1 Journal article-refereed

Organisations: School of Architecture

Contributors: Koponen, O.

Pages: 34-40

Publication date: 2011

Peer-reviewed: Yes

#### **Publication information**

Journal: Arkkitehti

Volume: 108

Issue number: 2

ISSN (Print): 0783-3660

Original language: Finnish

#### **Bibliographical note**

Contribution: organisation=ark aht,FACT1=1

Source: researchoutputwizard

Source ID: 6411

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

### **Romantiikan uudelleenarviointi/Re-assessing romanticism**

#### **General information**

Publication status: Published

MoE publication type: A1 Journal article-refereed

Organisations: School of Architecture

Contributors: Koponen, O.

Pages: 44-48

Publication date: 2010

Peer-reviewed: Yes

#### **Publication information**

Journal: Arkkitehti

Issue number: 1

ISSN (Print): 0783-3660

Original language: Finnish

#### **Bibliographical note**

Contribution: organisation=ark aht,FACT1=1<br/>Publisher name: Suomen Arkkitehtiliitto

Source: researchoutputwizard

Source ID: 8425

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

### **Suurmieskulttia syvemmälle; Beyond the Personality Cult**

#### **General information**

Publication status: Published

MoE publication type: A1 Journal article-refereed

Organisations: School of Architecture

Contributors: Koponen, O.

Pages: 72-74

Publication date: 2010

Peer-reviewed: Yes

#### **Publication information**

Journal: Arkkitehti

Issue number: 5/2010

ISSN (Print): 0783-3660  
Original language: Finnish

#### **Bibliographical note**

Contribution: organisation=ark aht,FACT1=1<br/>Publisher name: Suomen Arkkitehtiliitto  
Source: researchoutputwizard  
Source ID: 8426  
Research output: Contribution to journal › Article › Scientific › peer-review

### **The Hervanta Central Axis and the Myth about the Finnishness of Reima Pietilä's Architecture**

#### **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: 48-61  
Publication date: 2009

#### **Host publication information**

Title of host publication: Raili y Reima Pietilä: un desafío a la arquitectura moderna = Raili and Reima Pietilä: challenging modern architecture  
Place of publication: Madrid  
Publisher: Museo Colecciones ICO  
Editor: Johansson, E.  
ISBN (Print): 978-84-936568-1-2

#### **Bibliographical note**

Contribution: organisation=ark aht,FACT1=1  
Source: researchoutputwizard  
Source ID: 10505  
Research output: Chapter in Book/Report/Conference proceeding › Chapter › Scientific

### **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

### **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

### 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 solmukohtassa  
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

### 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

### 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

#### 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

#### 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

#### 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: TAIDEHISTORIALLISTA TUTKIMUKSIA  
Issue number: 48  
ISSN (Print): 0355-1938  
Original language: Finnish  
Research output: Contribution to journal › Article › Scientific › peer-review

## **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](#)

## **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](#)

## **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](#)

## **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

#### 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

#### 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

## 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<br/>Portfolio EDEND: 2015-01-11  
Source: researchoutputwizard  
Source ID: 798  
Research output: Contribution to journal > Article > Professional

## Arkkitehtuuri in Moduulirakentaminen: Teräskenteknologian 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

## Länsiradan maankäytön kehityskuvaselvitys Espoo-Kirkkonummi-Vihti-Lohja

### General information

Publication status: Published  
MoE publication type: D4 Published development or research report or study  
Organisations: School of Architecture  
Contributors: Kotilainen, H., Lodenius, S., Pesonen, H.

Publication date: 2009

#### Publication information

Place of publication: Oulu

Publisher: Unknown Publisher

Original language: Finnish

#### Publication series

Name: Espoon, Helsingin ja Lohjan kaupungit, Kirkkonummen ja Viikkin kunnat, Uudenmaan liitto, Uudenmaan tiepiiri ja Ratahallintokeskus

#### Bibliographical note

Contribution: organisation=ark ays,FACT1=1

Source: researchoutputwizard

Source ID: 10533

Research output: [Book/Report](#) › [Commissioned report](#) › [Professional](#)

### 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](#)

### Asukaslähtöinen puukerrostalokortteli tilaelementeistä: Esimerkinä 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

Versio ja lupa ok 12.1.2016 KK  
Research output: Book/Report > Commissioned report > Professional

#### 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-vesti 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://www.ara.fi/fi-FI/ARAtietopankki/ARAviesti/ARAviestin_verkkoartikkelit/Mika_estaa_joustavan_asuntorakentamisen(35611))  
<http://urn.fi/URN:NBN:fi:ty-201705171413>  
URLs:  
[http://www.ara.fi/fi-FI/ARAtietopankki/ARAviesti/ARAviestin\\_verkkoartikkelit/Mika\\_estaa\\_joustavan\\_asuntorakentamisen%2835611%29](http://www.ara.fi/fi-FI/ARAtietopankki/ARAviesti/ARAviestin_verkkoartikkelit/Mika_estaa_joustavan_asuntorakentamisen%2835611%29)  
Research output: Chapter in Book/Report/Conference proceeding > Chapter > Professional

#### Joustavat asuinympäristöt: 10 visiota aikaa kestävään 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

## Wooden Boxes

### General information

Publication status: Published  
MoE publication type: C2 Edited books  
Organisations: School of Architecture

Contributors: Kuhlmann, D. (ed.), Simmel, C. (ed.), Griffiths, G. (ed.)  
Publication date: 2011

#### Publication information

Place of publication: Wien  
Publisher: Luftschacht Verlag  
ISBN (Print): 978-3-902373-93-9  
Original language: English

#### Bibliographical note

ei ut-numeroa 29.3.2014<br/>Contribution: organisation=ark ays,FACT1=1  
Source: researchoutputwizard  
Source ID: 6446  
Research output: Book/Report > Anthology > 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

### **Nekapolis. Or the future of a part of the city**

#### General information

Publication status: Published  
MoE publication type: A3 Part of a book or another research book  
Organisations: School of Architecture  
Contributors: Kuusela, K.  
Number of pages: 13  
Pages: 95-107  
Publication date: 2010

#### Host publication information

Title of host publication: Urban Fallows. Transformations & Breeding Grounds. City Scratching III. Tampere University of Technology. School of Architecture. Publication  
Editor: Ylä-Anttila, K.  
ISBN (Print): 978-952-15-2490-5

#### Bibliographical note

City of Tampere / Creative Tampere, NCC Property development Oy, Ramboll Finland Oy, UPM, City of Akaa, Council of Tampere Region<br/>Contribution: organisation=ark ays,FACT1=1  
Source: researchoutputwizard  
Source ID: 8499  
Research output: Chapter in Book/Report/Conference proceeding > Chapter > Scientific > peer-review

## 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

## 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

## 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

### **Metropolialueen kestävä aluerakenne. METKA-hankkeen 2007-08 tiivistelmä**

#### **General information**

Publication status: Published  
MoE publication type: D4 Published development or research report or study  
Organisations: School of Architecture  
Contributors: Laakso, S., Lahti, P., Lodenius, S., Moilanen, P.  
Publication date: 2011

#### **Publication information**

Publisher: Etelä-Suomen maakuntien liitto  
Original language: Finnish

#### **Publication series**

Name: Etelä-Suomen maakuntien liitto  
Publisher: Etelä-Suomen maakuntien liitto  
URLs:  
<http://www.metkaprojekti.info>

#### **Bibliographical note**

Contribution: organisation=ark ays,FACT1=1  
Source: researchoutputwizard  
Source ID: 6494  
Research output: Book/Report › Commissioned report › Professional

### **Wooden Boat Centre Kotka: L'Arca**

#### **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: 6511  
Research output: Artistic and non-textual form › Design › Solo art production

### **Embajada de Finlandia, Embassy of Finland, Tokyo: AV proyectos**

#### **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: 2010  
Media of output: Print

#### **Bibliographical note**

Architectural design: Lahdelma, I. & Mahlamäki, R.<br/>Contribution: organisation=ark aht,FACT1=1  
Source: researchoutputwizard  
Source ID: 8531  
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<br/>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

#### **Joensuun lyseon peruskoulu, Joensuu 2006: Maailman paras koulu - The Best School in the World - näyttely, Suomen rakennustaiteen museo, 8.6.-25.9.2011**

##### **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: Other

##### **Bibliographical note**

Contribution: organisation=ark aht,FACT1=1  
Source: researchoutputwizard  
Source ID: 6506  
Research output: Artistic and non-textual form › Architecture › Art in non-art work

#### **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

### **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

### **Architects Lahdelma & Mahlamäki: Span Magazine**

#### **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: 2009  
Media of output: Print

#### **Bibliographical note**

Contribution: organisation=ark aht,FACT1=1  
Source: researchoutputwizard  
Source ID: 10602  
Research output: Artistic and non-textual form › Design › Solo art production

### **Maritime Centre Vellamo, Kotka; Wooden Boat Center, Kotka - Kotkan merikeskus Vellamo, Kotkan puuvenekeskus: Näyttely Finnish Architecture 08 09, Eesti Architruurimuseumis Rotermanni Soolalaos, Tallinna, Viro 19.11-19.12.2010**

#### **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: 2010  
Media of output: Other

#### **Bibliographical note**

Contribution: organisation=ark aht,FACT1=1  
Source: researchoutputwizard  
Source ID: 8532  
Research output: Artistic and non-textual form › Design › Solo art production

**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

**Joensuu Primary School, Joensuu Finland, 2006; New School Architecture from Europe: World Architecture: 10/2011: 100-105**

**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: 6505  
Research output: Artistic and non-textual form › Architecture › Art in non-art work

**Maritime Center Vellamo**

**General information**

Publication status: Published  
MoE publication type: F1 Published independent work of art  
Organisations: School of Architecture  
Contributors: Lahdelma, I.  
Publication date: 2011  
Media of output: Print

**Bibliographical note**

Contribution: organisation=ark aht,FACT1=1  
Source: researchoutputwizard  
Source ID: 6502  
Research output: Artistic and non-textual form › Design › Solo art production

**Maritime Centre Vellamo, Kotka; Wooden Boat Center, Kotka - Kotkan merikeskus Vellamo, Kotkan puuvenekeskus: Näyttely Finnish Architecture 08 09, Poitiers, France: Maison de l'architecture de Poitou-Charentes 1.9.-28.10.2010**

**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: Other

**Bibliographical note**

Contribution: organisation=ark aht,FACT1=1  
Source: researchoutputwizard



Source ID: 6510

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

**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 rakennustaiteen 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

**Eriksson arkitehdeille voitto. Yläksen uuden matkailukylän arkkitehtuurikilpailussa**

#### General information

Publication status: Published

MoE publication type: B1 Article in a scientific magazine

Organisations: School of Architecture

Contributors: Lahdelma, I.

Pages: 28-31

Publication date: 2010

Peer-reviewed: No

#### Publication information

Journal: Arkkitehtiutiset

Issue number: 12/2010

ISSN (Print): 0044-8915

Original language: Finnish

#### Bibliographical note

Contribution: organisation=ark aht,FACT1=1

Source: researchoutputwizard

Source ID: 8528

Research output: Contribution to journal › Article › Scientific

**Kotkan merikeskus, Vellamo; Kotkan puuvenekeskus: Suomen arkkitehtuuria 0809, Finnish Architecture 0809, Suomen Rakennustaiteen museo, Helsinki, 9.6. - 26.9.2010**

#### General information

Publication status: Published

MoE publication type: F1 Published independent work of art

Organisations: School of Architecture

Contributors: Lahdelma, I.

Publication date: 2010

Media of output: Print

#### Bibliographical note

Arkkitehti: Lahdelma, I.<br/>Contribution: organisation=ark aht,FACT1=1

Source: researchoutputwizard

Source ID: 8529

Research output: Artistic and non-textual form › Design › 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

### **Main Library, Rauma**

#### **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: 6507  
Research output: Artistic and non-textual form › Design › Solo art production

**Maritime Centre Vellamo, Kotka; Wooden Boat Center, Kotka - Kotkan merikeskus Vellamo, Kotkan puuvenekeskus: Näyttely Finnish Architecture 08 09, Budapest, Unkari, FUGA 28.10.-14.11.2011**

**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: Other

**Bibliographical note**

Contribution: organisation=ark aht,FACT1=1  
Source: researchoutputwizard  
Source ID: 6509  
Research output: Artistic and non-textual form › Architecture › Art in non-art work

**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

**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

**Maritime Centre Vellamo, Kotka; Wooden Boat Center, Kotka - Kotkan merikeskus Vellamo, Kotkan puuvenekeskus: Näyttely Finnish Architecture 08 09, Vapriikki, Tampere 20.9.-9.10.2010**

**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: Other

**Bibliographical note**

Contribution: organisation=ark aht,FACT1=1  
Source: researchoutputwizard  
Source ID: 6508  
Research output: Artistic and non-textual form › Design › Solo art production

### **Building new history museums i Poland - who's building them, how are they building them and for whom? Architectura, murator, Puola**

#### **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: 2010  
Media of output: Print

#### **Bibliographical note**

Puolan juutalaisten historian museo, Varsova, Puola, kilpailu- ja suunnitteluvaihe<br/>Contribution: organisation=ark aht,FACT1=1  
Source: researchoutputwizard  
Source ID: 8530  
Research output: Artistic and non-textual form › Design › Solo art production

### **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

### **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

### **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

### **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

## **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

## **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

## **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

## **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

## **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

## **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

## **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

## **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

## **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

## **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

## **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

## **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

#### 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

#### 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

#### Sanojen synty ja muita piirroksia, taidenäyttely

##### General information

Publication status: Published

MoE publication type: F1 Published independent work of art

Organisations: School of Architecture

Contributors: Laiti, M.

Publication date: 2010

Media of output: Print

##### Bibliographical note

Contribution: organisation=ark aht,FACT1=1

Source: researchoutputwizard

Source ID: 8562

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

#### 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

#### 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

### **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](https://doi.org/10.17645/up.v3i3.1394)

URLs:

<http://urn.fi/URN:NBN:fi:tty-201806131976>

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:ty-201807312043>. Embargo ended: 1/09/20  
Source: Scopus  
Source ID: 85049334016  
Research output: [Contribution to journal](#) › [Article](#) › [Scientific](#) › [peer-review](#)

#### Reconstruction of architecture. New morphology, meaning and methodology for architecture

##### General information

Publication status: Published  
MoE publication type: A4 Article in a conference publication  
Organisations: School of Architecture  
Contributors: Launis, T.  
Number of pages: 53  
Pages: 1-53  
Publication date: 2010

##### Host publication information

Title of host publication: Nordic Association of Architectural Research NAAR Annual Conference 2010, From Gesamtkunstwerk to Complexity - Architecture in All Scales, Tampere, Finland, 22.-24.04.2010

##### Bibliographical note

Contribution: organisation=ark ars,FACT1=1  
Source: researchoutputwizard  
Source ID: 8587  
Research output: [Chapter in Book/Report/Conference proceeding](#) › [Conference contribution](#) › [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

#### Näyttelyn keskiössä puu: mihin puu venyy, mitä metsä meille merkitsee? Tampereen teknillisen korkeakoulun arkkitehtuurin laitoksen taide3-kurssi, näyttelyssä n. 70 osallistujaa

#### General information

Publication status: Published  
MoE publication type: F1 Published independent work of art  
Organisations: School of Architecture  
Contributors: Lehtonen, H.  
Publication date: 2010  
Media of output: Print  
URLs:  
[http://onoma.org/fi/nayttelyt/puunsyy\\_fi.php](http://onoma.org/fi/nayttelyt/puunsyy_fi.php)

#### Bibliographical note

Lehtonen, H.(toim).<br/>Contribution: organisation=ark aht,FACT1=1  
Source: researchoutputwizard  
Source ID: 8599  
Research output: Artistic and non-textual form › Design › Solo art production

#### 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

#### 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

### **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

### **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

**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

**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

**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

### 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

### 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

## 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

## "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

## 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

#### **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

#### **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

#### **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

### 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

### 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

## 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

## 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:tyy-201712012287>

URLs:

[http://tietokaytoon.fi/documents/10616/3866814/65\\_WHOLE-loppuraportti-20092017+%282%29.pdf/210de171-d6bf-4405-a2d4-cfa262fbd522?version=1.0](http://tietokaytoon.fi/documents/10616/3866814/65_WHOLE-loppuraportti-20092017+%282%29.pdf/210de171-d6bf-4405-a2d4-cfa262fbd522?version=1.0)

Research output: Book/Report > Commissioned report > 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

### 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

### 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

### Monipuolistaminen on hyvää asuntorakentamispoliitikkaa

#### 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/RY417/index.html#30>  
Research output: Contribution to journal › Article › Professional

### 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

#### **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

#### **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

#### **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

### **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 ohjausot, 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 digitalisaatioissa 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

### **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

### 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

### Urban Eco-Factory compatibility of residential and industrial zones

#### General information

Publication status: Published

MoE publication type: B3 Non-refereed article in conference proceedings

Organisations: Department of Civil Engineering, Department of Production Engineering, School of Architecture

Contributors: Leino, T., Salminen, K., Joutsiniemi, A.

Number of pages: 9

Pages: 1-9

Publication date: 2011

#### Host publication information

Title of host publication: The 6th International Conference on Industrial Ecology, ISIE 2011, 7-10 June, 2011, University of California, Berkeley, USA

Place of publication: Berkeley, CA

Publisher: International Society for Industrial Ecology

#### Publication series

Name: International Conference on Industrial Ecology ISIE

Publisher: International Society for Industrial Ecology

#### Bibliographical note

ei ut-numeroa 29.3.2014<br/>Contribution: organisation=rak,FACT1=0.34<br/>Contribution:

organisation=tte,FACT2=0.33<br/>Contribution: organisation=ark ays,FACT3=0.33

Source: researchoutputwizard

Source ID: 6582

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

## Sustainable manufacturing and eco-factories within sustainable industrial areas within fast growing eco-cities

### General information

Publication status: Published

MoE publication type: B3 Non-refereed article in conference proceedings

Organisations: Department of Civil Engineering, Department of Production Engineering, School of Architecture

Contributors: Leino, T., Salminen, K., Joutsiniemi, A.

Pages: 747-754

Publication date: 2011

### Host publication information

Title of host publication: 21st International Conference on Flexible Automation and Intelligent Manufacturing, FAIM 2011, 26-29 June, 2011, Taichung, Taiwan

Place of publication: Taichung

Publisher: FAIM 2011

ISBN (Print): 978-986-87291-0-0

### Publication series

Name: International Conference on Flexible Automation and Intelligent Manufacturing

Publisher: FAIM 2011

### Bibliographical note

ei ut-numeroa 29.3.2014<br/>Contribution: organisation=rak,FACT1=0.34<br/>Contribution:

organisation=tte,FACT2=0.33<br/>Contribution: organisation=ark ays,FACT3=0.33

Source: researchoutputwizard

Source ID: 6581

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

## Kulttuuria yhdyskuntarakenteessa? Urbaanin 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

## 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

### Cosmos, dwelling and identities - the notions of space and place of the Likuba people

#### General information

Publication status: Published

MoE publication type: A4 Article in a conference publication

Organisations: School of Architecture

Contributors: Liwata, M.

Number of pages: 8

Pages: 1-8

Publication date: 2010

#### Host publication information

Title of host publication: Nordic Association of Architectural Research NAAR Annual Conference 2010, From Gesamtkunstwerk to Complexity - Architecture in All Scales, Tampere, Finland, 22.-24.04.2010

#### Bibliographical note

Contribution: organisation=ark ays,FACT1=1

Source: researchoutputwizard

Source ID: 8660

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

### Sisältö vai muoto kaavoituksellisen ohjauksen keskiössä - havainnot New York Cityn suunnittelukäytännöistä

#### General information

Publication status: Published

MoE publication type: A1 Journal article-refereed

Organisations: School of Architecture

Contributors: Lodenius, S.

Pages: 8-28

Publication date: 2010

Peer-reviewed: Yes

#### Publication information

Journal: Yhdyskuntasuunnittelu

Issue number: 4/2010

ISSN (Print): 1459-6806  
Original language: Finnish

#### **Bibliographical note**

Contribution: organisation=ark ays,FACT1=1  
Source: researchoutputwizard  
Source ID: 8663  
Research output: Contribution to journal › Article › Scientific › peer-review

#### **Anteckningar från ett färggrant Äppelträd (rapport från New York).**

#### **General information**

Publication status: Published  
MoE publication type: D1 Article in a trade journal  
Organisations: School of Architecture  
Contributors: Lodenius, S.  
Number of pages: 5  
Pages: 1-5  
Publication date: 2010  
Peer-reviewed: Unknown

#### **Publication information**

Journal: Ny Tid  
Issue number: Helmikuu  
ISSN (Print): 1456-0518  
Original language: Swedish  
URLs:  
<http://www.nytid.fi/?s=lodenius+staffan>

#### **Bibliographical note**

Contribution: organisation=ark ays,FACT1=1  
Source: researchoutputwizard  
Source ID: 8661  
Research output: Contribution to journal › Article › Professional

#### **Monikulttuurisuus: segregaatio vai integraatio? Havaintoja New Yorkin naapurustoista**

#### **General information**

Publication status: Published  
MoE publication type: B1 Article in a scientific magazine  
Organisations: School of Architecture  
Contributors: Lodenius, S.  
Pages: 55-57  
Publication date: 2010  
Peer-reviewed: No

#### **Publication information**

Journal: RY Rakennettu ympäristö  
Issue number: 1/2010  
Original language: Finnish

#### **Bibliographical note**

Contribution: organisation=ark ays,FACT1=1  
Source: researchoutputwizard  
Source ID: 8662  
Research output: Contribution to journal › Article › Scientific

#### **Keski-Uudenmaan KUUMA-kuntien kehitys- ja ympäristökuva, Hyvinkäästä koskeva laajennusosio, 2005**

#### **General information**

Publication status: Published  
MoE publication type: D4 Published development or research report or study  
Organisations: Yhdyskuntasuunnittelu  
Contributors: Lodenius, S., Silfverberg, B., Santasalo, T.

Publication date: 2006

#### Publication information

Publisher: Unknown Publisher

Original language: Finnish

URLs:

[http://www.uudenmaanliitto.fi/files/883/HyvVisio\\_raportti\\_2006.pdf](http://www.uudenmaanliitto.fi/files/883/HyvVisio_raportti_2006.pdf)

#### Bibliographical note

Contribution: organisation=ays,FACT1=1

Source: researchoutputwizard

Source ID: 16987

Research output: Book/Report › Commissioned report › 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

### 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

### 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

### **High Line - puisto ratakiskoissa/High Line - a new perspective on Manhattan**

#### **General information**

Publication status: Published  
MoE publication type: A1 Journal article-refereed  
Organisations: School of Architecture  
Contributors: Lodenius, S.  
Pages: 54-56  
Publication date: 2009  
Peer-reviewed: Yes

#### **Publication information**

Journal: Arkkitehti  
Issue number: 6/2009  
ISSN (Print): 0783-3660  
Original language: English

#### **Bibliographical note**

Contribution: organisation=ark ays,FACT1=1<br/>Publisher name: Suomen Arkkitehtiliitto  
Source: researchoutputwizard  
Source ID: 10747  
Research output: Contribution to journal › Article › Scientific › peer-review

### **Keskustoista kesannoille**

#### **General information**

Publication status: Published  
MoE publication type: A1 Journal article-refereed  
Organisations: School of Architecture  
Contributors: Lodenius, S.  
Pages: 15-21  
Publication date: 2011  
Peer-reviewed: Yes

#### **Publication information**

Journal: Arkkitehti  
Volume: 108  
Issue number: 3  
ISSN (Print): 0783-3660  
Original language: Finnish

#### **Bibliographical note**

Contribution: organisation=ark ays,FACT1=1  
Source: researchoutputwizard  
Source ID: 6645  
Research output: Contribution to journal › Article › Scientific › peer-review

### **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

## The Finnish Waterfront

### General information

Publication status: Published

MoE publication type: B1 Article in a scientific magazine

Organisations: School of Architecture

Contributors: Lodenius, S.

Pages: 27-29

Publication date: 2011

Peer-reviewed: No

### Publication information

Journal: Project Baltia, Shoreline

Issue number: 13

Original language: English

### Bibliographical note

ei ut-numeroa 5.4.2014<br/>Contribution: organisation=ark ays,FACT1=1

Source: researchoutputwizard

Source ID: 6646

Research output: Contribution to journal › Article › Scientific

## 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

## 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: Arkkitehtiutiset  
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 laidalta

##### General information

Publication status: Published  
MoE publication type: D4 Published development or research report or study  
Organisations: School of Architecture  
Contributors: Mänty, J.  
Number of pages: 199  
Publication date: 2010

##### Publication information

Place of publication: Tampere  
Publisher: Tampereen teknillinen yliopisto. Arkkitehtuurin laitos  
ISBN (Print): 978-952-15-2282  
Original language: Finnish

##### Bibliographical note

Contribution: organisation=ark ays,FACT1=1  
Source: researchoutputwizard  
Source ID: 8743  
Research output: Book/Report › Commissioned report › Professional

#### 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

#### 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

### 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

### Maankäyttösuunnitelma Haukilan alueelle 2009

#### General information

Publication status: Published  
MoE publication type: D4 Published development or research report or study  
Organisations: School of Architecture  
Contributors: Mätäsniemi, T.  
Number of pages: 64  
Publication date: 2010

#### Publication information

Place of publication: Tampere  
Publisher: Kantri ry, Pirkan Helmi ry, Pirkanmaan TE-keskus, Tampereen teknillinen yliopisto. EDGE  
Original language: Finnish

#### Publication series

Name: Kylät kehällä -hanke, Kyläsuunnittelu kaupunkiseudun ulkokehällä  
Publisher: Kantri ry, Pirkan Helmi ry, Pirkanmaan TE-keskus, Tampereen teknillinen yliopisto. EDGE

#### Bibliographical note

Contribution: organisation=ark ays,FACT1=1  
Source: researchoutputwizard  
Source ID: 8765  
Research output: Book/Report › Commissioned report › Professional

## **VERNADOC - documenting vernacular architecture**

### **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: 92-93  
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: 6781  
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

## **Pajaniemen savusauna, Vehkajärvi - Pajaniemi smoke sauna in Häme Finland**

### **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: 176-177  
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: 6779

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

### **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

### **Myllymäen savusauna - Myllymäki smoke sauna in uusimaa, Finland**

#### **General information**

Publication status: Published

MoE publication type: B2 Part of a book or another research book

Organisations: School of Architecture

Contributors: Mattila, M., Freese, S.

Pages: 170-173

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: 6782

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

### **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

#### **Kontupohjan kirkko - Church of Kontupohja in Karelia, 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: 116-117

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: 6778

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

#### **Kivinavetat, Finn Vernadoc 2009 - Kivinavettakinkerit**

##### **General information**

Publication status: Published

MoE publication type: C2 Edited books

Organisations: School of Architecture

Contributors: Mattila, M. (ed.)

Number of pages: 133

Publication date: 2010

##### **Publication information**

Place of publication: Vilppula

Publisher: Ruoveden kunnan sivistystoimi, Suomen Icomos, Kansanrakentamisen komitea

ISBN (Print): 978-951-96602-8-8

Original language: Finnish

#### **Bibliographical note**

Contribution: organisation=ark aht,FACT1=1

Source: researchoutputwizard

Source ID: 8768

Research output: Book/Report > Anthology > Scientific > peer-review

#### **Pien-Toijolan savusauna, Ristiina - Pien-Toijola smoke sauna in Savo Finland**

##### **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: 174-175

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: 6780

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

#### **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

#### **Isoniemen riihi, Vehkajärvi - Isoniemi drying house in Häme, Finland**

##### **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: 168-169

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: 6776

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

#### **Karjalainen savusauna - Karelian smoke sauna in Viena-Karelia, 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: 178-179  
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: 6777  
Research output: Chapter in Book/Report/Conference proceeding › Chapter › Scientific

### **Marilainen savusauna - Mari smoke sauna in Bashkortoshtan, 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., Lennox, M.  
Pages: 184-185  
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: 6783  
Research output: Chapter in Book/Report/Conference proceeding › Chapter › Scientific

### **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

#### **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: 6775  
Research output: Chapter in Book/Report/Conference proceeding › Chapter › Scientific

## Monikulttuurisuus on osa meitä, Multiculturalism is Part of Us

### General information

Publication status: Published  
MoE publication type: A2 Review article in a scientific journal  
Organisations: School of Architecture  
Contributors: Maununaho, K., Virkkala, I.  
Pages: 70-72  
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: 6784  
Research output: Contribution to journal › Review Article › Scientific › peer-review

## Cultural encounters in housing environments - designing meeting spaces for a multicultural neighborhood

### General information

Publication status: Published  
MoE publication type: A4 Article in a conference publication  
Organisations: School of Architecture  
Contributors: Maununaho, K.  
Number of pages: 10  
Pages: 1-10  
Publication date: 2010

### Host publication information

Title of host publication: Nordic Association of Architectural Research NAAR Annual Conference 2010, From Gesamtkunstwerk to Complexity - Architecture in All Scales, Tampere, Finland, 22.-24.04.2010

### Bibliographical note

Contribution: organisation=ark ars,FACT1=1  
Source: researchoutputwizard  
Source ID: 8769  
Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

## 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

### **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:tyy-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

### **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:

### 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

### 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.jobbe.2020.101625

Source: Scopus

Source ID: 85088861500

Research output: Contribution to journal › 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

### **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

### **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

### 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

### 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

#### 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. Energiatohokkaan arkkitehtisuunnittelun ohjekortisto  
URLs:  
<http://urn.fi/URN:NBN:fi:tyy-201901221135>  
Research output: Book/Report › Book › Professional

#### 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

#### Eedenistä utopiaan/Out of Eden - into utopia

##### General information

Publication status: Published  
MoE publication type: A1 Journal article-refereed  
Organisations: School of Architecture  
Contributors: Näveri, M.  
Pages: 49-53  
Publication date: 2010  
Peer-reviewed: Yes

##### Publication information

Journal: Arkkitehti  
Issue number: 1  
ISSN (Print): 0783-3660  
Original language: Finnish

##### Bibliographical note

Contribution: organisation=ark ays,FACT1=1<br/>Publisher name: Suomen Arkkitehtiiliitto  
Source: researchoutputwizard  
Source ID: 8827  
Research output: Contribution to journal › Article › Scientific › peer-review

#### 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. Insinöörityeiden 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

#### **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

#### **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-ferrymen-and-empathy-in-architectural-education/>  
Research output: Contribution to journal › Article › Professional

#### Energiatohokas 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

#### 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

## 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

## 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

### **Waterfront and maritime museum: Lahdelma & Mahlamäki architects**

#### **General information**

Publication status: Published

MoE publication type: F1 Published independent work of art

Organisations: School of Architecture

Contributors: Nurmi, T., Lahdelma, I., Mahlamäki, R.

Publication date: 2010

Media of output: Print

#### **Bibliographical note**

Nurmi, T.(ed.).Architectural design: Lahdelma, I. & Mahlamäki, R.<br/>Contribution: organisation=ark aht,FACT1=1

Source: researchoutputwizard

Source ID: 8876

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

### **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

### **Metaphors in urban planning: From garden city to Zwischenstadt and Netzstadt**

#### **General information**

Publication status: Published

MoE publication type: C1 Separate scientific books

Organisations: School of Architecture

Contributors: Pakarinen, T.  
Number of pages: 120  
Publication date: 2010

#### **Publication information**

Place of publication: Tampere  
Publisher: Tampere University of Technology  
ISBN (Print): 978-952-15-2310-6  
Original language: English

#### **Publication series**

Name: Datutop  
Publisher: Tampere University of Technology  
Volume: 31  
ISSN (Print): 0359-7105

#### **Bibliographical note**

Contribution: organisation=ark ays,FACT1=1  
Source: researchoutputwizard  
Source ID: 8931  
Research output: Book/Report › Book › 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

### **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

### **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

### **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

### **Modeling Urban Dynamics in Self-organizing Enclaves: The Cases of Nekala and Vaasa**

#### **General information**

Publication status: Published  
MoE publication type: A4 Article in a conference publication  
Organisations: School of Architecture  
Contributors: Partanen, J.  
Number of pages: 8  
Pages: 1-8  
Publication date: 2011

#### **Host publication information**

Title of host publication: 17th European Colloquium on Quantitative and Theoretical Geography ECQTG2011, Harokopio University, Athens, Greece, 2nd to the 5th of September 2011  
Place of publication: Athens  
Publisher: Harokopio University  
Editor: Kalogirou, S.  
ISBN (Print): 978-960-87751-1-4

#### **Publication series**

Name: European Colloquium on Quantitative and Theoretical Geography ECQTG  
Publisher: Harokopio University

#### **Bibliographical note**

ei ut-numeroa 26.4.2014<br/>Contribution: organisation=ark ays,FACT1=1  
Source: researchoutputwizard  
Source ID: 6969  
Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

### **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

**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

**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

## Reclaiming of fallow resources. Potential for breeding grounds or over-exploitation

### General information

Publication status: Published  
MoE publication type: A3 Part of a book or another research book  
Organisations: School of Architecture  
Contributors: Partanen, J.  
Pages: 87-93  
Publication date: 2010

### Host publication information

Title of host publication: Urban Fallow. Transformations & Breeding Grounds. City Scratching III. Tampere University of Technology. School of Architecture. Publication  
Editor: Ylä-Anttila, K.  
ISBN (Print): 978-952-15-2490-5

### Bibliographical note

City of Tampere / Creative Tampere, NCC Property development Oy, Ramboll Finland Oy, UPM, City of Akaa, Council of Tampere Region  
Contribution: organisation=ark ays,FACT1=1  
Source: researchoutputwizard  
Source ID: 8944  
Research output: Chapter in Book/Report/Conference proceeding › Chapter › Scientific › peer-review

## Modelling Local Scale Land-Use: Case Nekala

### General information

Publication status: Published  
MoE publication type: A4 Article in a conference publication  
Organisations: School of Architecture  
Contributors: Partanen, J.  
Number of pages: 8  
Pages: 106-113  
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 26.4.2014  
Contribution: organisation=ark ays,FACT1=1  
Source: researchoutputwizard  
Source ID: 6970  
Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

## Complexity and ethics; evaluating the self-organizing reality

### General information

Publication status: Published  
MoE publication type: A4 Article in a conference publication  
Organisations: School of Architecture  
Contributors: Partanen, J.  
Number of pages: 20  
Pages: 1-20  
Publication date: 2010

### Host publication information

Title of host publication: Nordic Association of Architectural Research NAAR Annual Conference 2010, From Gesamtkunstwerk to Complexity - Architecture in All Scales, Tampere, Finland, 22.-24.04.2010



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

### **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

### **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 compared 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

### 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

### 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

### 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:tyy-201705151397>

Additional files:

PARTANEN\_URBAN\_CELLULAR\_AUTOMATA\_MODEL

Source: Scopus

Source ID: 85009278908

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

### **'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