The aim of this article is to question the capacity of our state-of-the-art urban planning and urban systems to adapt to continuous changes and disturbances in the operating environment. We contribute to the current debate of alleged rigidity of planning by observing adaptability and evolution from a spatial-functional systems angle. We argue that in an attempt to help cities adapt to uncertain futures, strategic planning would benefit from the epistemology of resilience and complex systems for a better performance. Resilience approach entails the notion that disturbances are non-avoidable and critical for the constant evolution of cities and regions. However, this knowledge lacks operationalisation in planning practice. We observe the adaptability of urban systems and planning by reflecting their qualitative resilience capacity, addressing implicit deficiencies due to hierarchical orientation and, propose a spatially oriented framework to help indicate resilience potential from urban morphological qualities.

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.
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.
A statistical and geographical study on demolished buildings
Demolition of buildings is one fundamental but little studied factor participating in the dynamics of building stocks. This paper applies an explorative research strategy and studies the characteristics and location of demolished buildings in Finland as well as motives behind the demolition decisions. A statistical and geographical analysis was performed on a data set of all 50 818 buildings demolished in Finland between 2000 and 2012. The study shows that in the Finnish context, the amount of demolition, the size of the community, demographic development and construction activity are all interconnected. In general, the larger the community, the more it gains inhabitants and the more is built as well as demolished. The data confirms that removals from the building stock are a result of conscious deliberation; sudden destruction and gradual deterioration due to abandonment play minor roles. Non-residential buildings dominate the demolished floor area. In addition, they are much larger and younger at the time of demolition than residential buildings, which consist primarily of detached houses. Demolitions are geographically concentrated: cities covering little over 5% of Finland's area are accountable for 76% of demolished floor area; and city cores with the area of only 0.2% for as much as 44%.

General information
State: Published
Ministry of Education publication type: A1 Journal article-refereed
Organisations: School of Architecture, Department of Civil Engineering, Research group: Service Life Engineering of Structures, Research group: Built Environment in Transition
Authors: Huuhka, S., Lahdensivu, J.
Number of pages: 25
Pages: 73-96
Publication date: 2016
Peer-reviewed: Yes
Early online date: 1 Jan 2014

Publication information
Journal: Building Research and Information
Volume: 44
Issue number: 1
ISSN (Print): 0961-3218
Ratings:
Scopus rating (2016): CiteScore 3.01 SJR 1.298 SNIP 1.561
Scopus rating (2015): SJR 1.524 SNIP 1.543 CiteScore 2.72
Scopus rating (2014): SJR 1.305 SNIP 1.471 CiteScore 2.41
Scopus rating (2013): SJR 1.552 SNIP 1.837 CiteScore 2.46
Scopus rating (2012): SJR 1.492 SNIP 1.696 CiteScore 2.17
Scopus rating (2011): SJR 0.76 SNIP 1.084 CiteScore 1.45
Scopus rating (2010): SJR 0.761 SNIP 1.166
Scopus rating (2009): SJR 0.767 SNIP 1.413
Scopus rating (2008): SJR 0.798 SNIP 1.496
Scopus rating (2007): SJR 0.665 SNIP 1.279
Scopus rating (2006): SJR 0.572 SNIP 1.431
Scopus rating (2005): SJR 0.357 SNIP 0.855
Scopus rating (2004): SJR 0.798 SNIP 1.166
Scopus rating (2003): SJR 0.483 SNIP 0.771
Scopus rating (2002): SJR 0.371 SNIP 1.147
Scopus rating (2001): SJR 0.349 SNIP 0.865
Scopus rating (2000): SJR 0.329 SNIP 0.628
Scopus rating (1999): SJR 0.258 SNIP 0.731
Original language: English
Electronic versions:
Huuhka&Lahdensivu_Statistical_and_geographical_study_on_demolished_buildings_Accepted_Manuscript
DOIs:
10.1080/09613218.2014.980101
Links:

Bibliographical note
Published online: 06 Dec 2014<br/>Contribution: organisation=ark,FACT1=0.85<br/>Contribution: organisation=rak,FACT2=0.15<br/>Portfolio EDEND: 2014-12-30<br/>Publisher name: Routledge; International Council
Bus Transportation Accessibility - Does It Impact Housing Values?

General information
State: Published
Ministry of Education publication type: A4 Article in a conference publication
Organisations: Department of Civil Engineering, Research group: Life-cycle Economics, Research group: Construction Processes
Authors: Kurvinen, A., Sorri, J.
Number of pages: 11
Publication date: 2016

Host publication information
Title of host publication: Proceedings of the CIB World Building Congress 2016: Understanding impacts and functioning of different solutions
Volume: IV
Place of publication: Tampere
Publisher: Tampere University of Technology. Department of Civil Engineering
Editors: Nenonen, S., Junnonen, J.
ASJC Scopus subject areas: Economics, Econometrics and Finance (miscellaneous), Civil and Structural Engineering
Keywords: bus stops, bus traffic, housing prices, public transportation, residential property values, traffic related zones, urban form
Electronic versions:
WBC2016_Bus_Transportation_Accessibility
Links:
http://urn.fi/URN:NBN:fi:ttty-201606224310

Bibliographical note
This paper won World Building Congress 2016 Best Paper Award.

Lempäälän Sääksjärvi: Yhdyskasensation suunnittelu ammattikurssi 1 2016

General information
State: Published
Ministry of Education publication type: D4 Published development or research report or study
Organisations: School of Architecture, Research group: Urban Planning
Authors: Rajaniemi, J. (ed.), Chudoba, M. (ed.)
Number of pages: 115
Publication date: 2016

Publication information
Place of publication: Tampere
Publisher: Tampere University of Technology, School of Architecture
ISBN (Print): 978-952-15-3724-0
Original language: Finnish
Electronic versions:
Kurssijulkaisu_pdf
Links:
Research output: Professional › Commissioned report
Municipal economics of regional development – infill versus greenfield development

There is an ongoing debate in academia about the pros and cons of infill development. It has been said that dense city structure can lead to several agglomeration benefits and cost savings, whereas urban sprawl is usually seen as a negative phenomenon supporting an unsustainable lifestyle and leading to increasing municipal expenditures. Contradictory perspectives can also be found. Some studies claim that limiting the land available to build on is raising the prices in housing markets resulting in various problems. It is also alleged that the economic benefits gained through densifying are diminished in cities with a population over 500,000.

In this case study, the analysis is limited strictly to the financial aspects of regional development projects. The main difference when comparing this study to the existing body of literature is that the municipal revenues are considered alongside the expenditures instead of focusing solely on the cost aspects. The net Present Value method is used to analyze three different regional development projects. An ongoing greenfield residential area development project is compared with two infill development projects in the city of Tampere in Finland. The first infill area is situated in the immediate vicinity of the city center and the second is a suburb about eight kilometers west from downtown Tampere. The analysis provides information not only about differences between infill and greenfield projects, but also about the dissimilarities between different types of infill.

The results indicate that from the perspective of municipal economics, residential infill is more profitable when compared to greenfield development. Two studied infill areas start returning profits 25–30 years after the start of the development, whereas for the studied greenfield project the corresponding value is almost 50 years. Despite the undeniable economic benefits, the practice shows that there are still major obstacles preventing the widespread realization of infill in Finland.

General information
State: Published
Ministry of Education publication type: A3 Part of a book or another research book
Organisations: Department of Civil Engineering, Research group: Life-cycle Economics
Authors: Vihola, J., Kurvinen, A.
Number of pages: 24
Pages: 59-82
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.

Publication series
Name: DATUTOP
Publisher: Tampere University of Technology, School of Architecture
Volume: 34
ISSN (Print): 0359-7105
Keywords: infill development, greenfield development, municipal economics, urban economics, net present value
Links:

Bibliographical note
JUFOID=54540
Research output: Scientific - peer-review › Chapter

Indicators for self-organization potential in urban context
Self-organization is a basic mechanism by which complex urban systems organize themselves. This mechanism emerges from individual agents' local interactions, often with unpredictable consequences at the regional level. These emergent patterns cannot be controlled by traditional hierarchical methods, but they can be steered and encouraged towards desirable goals. Self-organization is often used as an allegory for all 'unplanned' activity in cities. It is important to study the actual mechanisms of self-organization in cities to link the theory of self-organization to planning praxis. This work builds on ongoing work exploring novel complex planning tools and methods. Here I explore the key features of open dynamic systems identified in the literature as indicators of self-organizing capacity. I study their applicability in urban spatial planning, and propose three measurable characteristics for estimating the self-organization potential of urban activities. Flow reflects generic accessibility, and is measured using space syntax. Internal order refers to autonomously organizing entities, in this case the clustering tendencies of activities. Enriching rests upon increasing complexity and is measured as changes in degrees of entropy over time. The results indicate that (1) the study area meets the criteria for self-organization, and (2) these characteristics can be applied to discover nodes of higher potential for self-organization in
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

State: Published

Ministry of Education 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

Authors: 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 (2016): CiteScore 3.73 SJR 1.16 SNIP 1.709

Scopus rating (2015): SJR 1.275 SNIP 1.915 CiteScore 3.98

Scopus rating (2014): SJR 1.339 SNIP 2.089 CiteScore 3.7

Scopus rating (2013): SJR 1.432 SNIP 2.184 CiteScore 3.34

Scopus rating (2012): SJR 1.262 SNIP 1.811 CiteScore 2.91

Scopus rating (2011): SJR 1.119 SNIP 1.848 CiteScore 2.62

Scopus rating (2010): SJR 1.163 SNIP 1.82

Scopus rating (2009): SJR 1.143 SNIP 1.647

Scopus rating (2008): SJR 0.803 SNIP 1.302

Scopus rating (2007): SJR 0.783 SNIP 1.708

Scopus rating (2006): SJR 0.933 SNIP 1.688

Scopus rating (2005): SJR 0.719 SNIP 1.426

Scopus rating (2004): SJR 1.031 SNIP 1.425

Scopus rating (2003): SJR 0.571 SNIP 1.086

Scopus rating (2002): SJR 0.399 SNIP 0.856
Asukaslähtöinen puukerrostalokortteli tilaelementeistä: Esimerkkinä Kokkolan Nukkumatin tontin suunnitelmia

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
State: Published
Ministry of Education publication type: D4 Published development or research report or study
Organisations: School of Architecture, Research group: ASUTUT
Authors: 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
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
Links:

Bibliographical note
Versio ja lupa ok 12.1.2016 KK
Research output: Professional › Commissioned report

Joustavat asuinypäristöt: 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
State: Published
Ministry of Education publication type: D6 Edited professional books
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.
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

State: Published
Ministry of Education publication type: A1 Journal article-refereed
Authors: 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 (2016): SJR 0.191 SNIP 1.622 CiteScore 0.34
Scopus rating (2015): SJR 0.141 SNIP 0.863 CiteScore 0.33
Scopus rating (2014): SJR 0.234 SNIP 1.437 CiteScore 0.54
Scopus rating (2013): SJR 0.135 SNIP 0.496 CiteScore 0.49
Scopus rating (2012): SJR 0.229 SNIP 1.525 CiteScore 0.66
Scopus rating (2011): SJR 0.274 SNIP 1.489 CiteScore 0.61
Scopus rating (2010): SJR 0.246 SNIP 1.246
Scopus rating (2009): SJR 0.201 SNIP 1.38
Scopus rating (2008): SJR 0.102 SNIP 0.839
Scopus rating (2007): SJR 0.231 SNIP 0.65
Scopus rating (2006): SJR 0.216 SNIP 0.59
Scopus rating (2005): SJR 0.124 SNIP 1.534
Scopus rating (2004): SJR 0.114 SNIP 0.861
Scopus rating (2003): SJR 0.228 SNIP 1.886
Scopus rating (2002): SJR 0.121 SNIP 1.4
Scopus rating (2001): SJR 0.124 SNIP 1.576
Scopus rating (2000): SJR 0.124 SNIP 0.375
Scopus rating (1999): SJR 0.163 SNIP 1.443
Original language: English
ASJC Scopus subject areas: Urban Studies, Archaeology, Archaeology
Keywords: Conzenian school, Muratorian school, Space syntax, Spatial analysis, Urban form
Links:
http://www.scopus.com/inward/record.url?scp=84927724787&partnerID=8YFLogxK (Link to publication in Scopus)
Source: Scopus
Source-ID: 84927724787
Research output: Scientific - peer-review › Article

Ainutkertaisten tarpeiden tragedia
As demonstrated in many earlier studies, the qualities of physical environment have great impacts on physical activity (PA) behavior. However, studying individual built environmental variables often produces contradictory effects between studies. To overcome this, we composed multivariate environmental types using principal component analysis that take notice of the inter-correlations between the physical environmental variables. To get a realistic view of the places children and adolescents visit in their daily life, we used mapping methodology where children themselves defined their important places. Based on 16 built environmental variables, six built environmental types were composed around these places.

We found that walking and cycling was most prominent in residential environments and least common in mixed use areas with offices. Environments with big commercial buildings as well as green environments had the highest proportions of car
use. Most places, in general, were visited with friends, but most typically, areas with big commercial buildings and mixed use areas with offices were reached in the company of friends. Relatively many places were visited alone in residential areas.

**General information**
State: Published
Ministry of Education publication type: A1 Journal article-refereed
Organisations: School of Architecture, Research group: EDGE, Research group: Urban Laboratory, Aalto University
Authors: Sarjala, S., Broberg, A., Hynynen, A.
Number of pages: 17
Pages: 87-103
Publication date: 2015
Peer-reviewed: Yes

**Publication information**
Journal: The Journal of Transport and Land Use
Volume: 9
Issue number: 2
ISSN (Print): 1938-7849
Ratings:
Scopus rating (2016): SJR 0.711 SNIP 1.091 CiteScore 1.59
Scopus rating (2015): SJR 0.707 SNIP 1.112 CiteScore 1.21
Scopus rating (2014): SJR 0.715 SNIP 1.413 CiteScore 1.07
Scopus rating (2013): SJR 0.321 SNIP 0.245 CiteScore 0.62
Original language: English
DOIs: 10.5198/jtlu.2015.803
Research output: Scientific - peer-review › Article

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**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**
State: Published
Ministry of Education publication type: C2 Edited books
Organisations: School of Architecture, Research group: Urban Planning Theory
Authors: Partanen, J. (ed.)
Number of pages: 226
Publication date: 2015

**Publication information**
Publisher: Tampere University of Technology. School of Architecture
Original language: English
Electronic versions:
AESOP_PC2015_PROCEEDINGS
Links:
Research output: Scientific - peer-review › Anthology

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**Kangasala-talo: Vanhan kuluttuuriitäjän uusi kuluttuuriitalo**

**General information**
State: Published
Ministry of Education publication type: D1 Article in a trade journal
Organisations: School of Architecture, Research group: History of Architecture
Authors: Koponen, O.
Number of pages: 3
Pages: 67-69
Publication date: 2015
Peer-reviewed: Unknown

**Publication information**
Kastellin monitoimitalo Oulu, Arkkitehtilehti 4/15

**General information**
State: Published
Ministry of Education publication type: F1 Published independent work of art
Organisations: School of Architecture, Research group: Architecture: History, Theory and Innovations
Authors: Lahdelma, I.
Publication date: 2015
Research output: Solo art production › Architecture

Kattavasti rivitaloista

**General information**
State: Published
Ministry of Education publication type: D1 Article in a trade journal
Organisations: School of Architecture, Research group: ASUTUT
Authors: 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: Professional › Book/Film/Article review

Kaupunki näyttämönä

**General information**
State: Published
Ministry of Education publication type: D1 Article in a trade journal
Organisations: School of Architecture, Research group: Urban Planning
Authors: Chudoba, M.
Number of pages: 2
Pages: 12-13
Publication date: 2015
Peer-reviewed: Unknown

Publication information
Journal: Arkkitehtiuutiset
Issue number: 8
ISSN (Print): 0044-8915
Original language: Finnish
Links:
Research output: Professional › Article

Kaupunki uudistuu

**General information**
State: Published
Ministry of Education publication type: D1 Article in a trade journal
Organisations: School of Architecture, Research group: Urban Planning
Paluu ojankaivajien valtakuntaan

General information
State: Published
Ministry of Education publication type: A1 Journal article-refereed
Organisations: School of Architecture, Research group: EDGE
Authors: Joutsiniemi, A.
Publication date: 2015
Peer-reviewed: Yes

Publication information
Journal: Yhdyskuntasuunnittelu
Volume: 53
Issue number: 1
ISSN (Print): 1459-6806
Original language: English
Links:
http://www.yss.fi/journal/paluu-ojankaivajien-valtakuntaan-2/
Research output: Scientific - peer-review › Editorial

Puu-Hubi: Perinteestä uusiin innovaatioihin

Raitiotien seisakkeet: Yhdyskuntasuunnittelin jatkokurssi A ja B
Vuoden 2014 Yhdyskuntasuunnittelin 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 osallistujat olivat valinneet myös planning-osouden, johon koottiin jäsenistö kunkin seisakkeen design-osuuden ryhmistä.

Raitiotien seisakkeet - monialainen suunnitteluprosessi opintojakson aiheena
Urban Planning and Design Advanced Course, co-ordinated by Tampere University of Technology Architecture School, opened up a possibility for the collaboration of two universities in Autumn 2014. The multidisciplinary student groups were given a task: to design a tram stop and its environment in Tampere. A real project was behind the task, giving a concrete motivation for the negotiations.
Strategic planning and epistemology of change: Probing the fitness of urban and planning systems with resilient spatial strategies

The aim of this paper is to question the fitness of our state-of-the-art urban planning and urban systems to adapt to continuous changes and disturbances in operating environment. We argue that in an attempt to help cities adapt to uncertain futures, strategic planning should be better informed by the epistemology of complex adaptive systems and better recognise recursive emergent processes between urban metabolism and morphology.

General information
State: Published
Ministry of Education publication type: A4 Article in a conference publication
Organisations: School of Architecture, Research group: EDGE
Authors: Rantanen, A., Joutsiniemi, A.
Number of pages: 12
Pages: 336-347
Publication date: 2015

Host publication information
Title of host publication: Sustainable Futures in a Changing Climate: Proceedings of the Conference "Sustainable Futures in a Changing Climate", 11–12 June 2014, Helsinki, Finland
Volume: 2/2015
Place of publication: Turku
Publisher: Finland Futures Research Centre, University of Turku
Editors: Hatakka, A., Vehmas, J.
ISBN (Print): 978-952-249-303-3

Publication series
Name: FFRC eBOOK 2/2015
Publisher: Finland Futures Research Centre, University of Turku
ISSN (Electronic): 1797-1322
Keywords: Strategic planning, Resilience, Complex adaptive system
Links:
Research output: Scientific - peer-review › Conference contribution

Temporary Uses Producing Difference in Contemporary Urbanism

General information
State: Published
Ministry of Education publication type: D3 Professional conference proceedings
Organisations: School of Architecture, Research group: Built Environment in Transition, Research group: Urban Planning Theory, University of Turku
Authors: 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: Professional › Conference contribution

Unlikely similar – Forking paths and path-dependency in transportation studies of Helsinki and Melbourne

General information
State: Published
Ministry of Education publication type: A4 Article in a conference publication
Organisations: School of Architecture, Research group: EDGE, Curtin University
Authors: 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
Uusia tuulia Euroopasta

General information
State: Published
Ministry of Education publication type: D2 Article in professional manuals or guides or professional information systems or textbook material
Organisations: School of Architecture, Research group: Built Environment in Transition, Research group: Urban Planning Theory
Authors: 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
Research output: Professional › Chapter


General information
State: Published
Ministry of Education publication type: B1 Article in a scientific magazine
Organisations: School of Architecture
Authors: 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: Scientific › Article

Asumisen katseimus : Housing Fair by the Lakeside

General information
State: Published
Ministry of Education publication type: D1 Article in a trade journal
Organisations: School of Architecture
Authors: Lehtovuori, P.
Number of pages: 3
Pages: 79-81
Publication date: 2014
Peer-reviewed: Unknown
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.

City of Boulevards or City of Malls? Urban Transport Infrastructure Retrofits Are Urban Landscape in Helsinki and Tampere

General Information
State: Published
Ministry of Education publication type: A4 Article in a conference publication
Organisations: School of Architecture
Authors: Hämäläinen, T., Lehtovuori, P.
Number of pages: 36-41
Publication date: 2014
Peer-reviewed: Unknown

Publication Information
Journal: Project Baltia, Archive
Issue number: 22
Original language: English
Designing Cities, Planning for People:

General information
State: Published
Ministry of Education publication type: A4 Article in a conference publication
Organisations: School of Architecture
Authors: Chudoba, M.
Number of pages: 10
Pages: 76-85
Publication date: 2014

Host publication information

Publication series
Name: University of Oulu, Department of Architecture, Publications
No.: A61
ISSN (Print): 0357-8704
Links:
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: Scientific - peer-review › Conference contribution

Digitaalista ja elähtäntä:

General information
State: Published
Ministry of Education publication type: A1 Journal article-refereed
Organisations: School of Architecture, Research group: EDGE
Authors: Joutsiniemi, A.
Publication date: 2014
Peer-reviewed: Yes

Publication information
Journal: Yhdyskuntasuunnittelu
Volume: 52
Issue number: 4
ISSN (Print): 1459-6806
Original language: Finnish
Links:
http://www.yss.fi/journal/digitaalista-ja-elahntayta/
Research output: Scientific - peer-review › Editorial

Eliel Saarinen ja korkean rakentamisen ristiriita

General information
Finnish Building Stock: Does Urban Shrinkage Equal Demolition?

General information
State: Published
Ministry of Education publication type: A4 Article in a conference publication
Organisations: School of Architecture, Research group: Built Environment in Transition
Authors: 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.
Links:

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: Scientific - peer-review › Conference contribution

Fraktaalit alueellisuuden perustaa murentamassa

General information
State: Published
Ministry of Education publication type: A1 Journal article-refereed
Organisations: School of Architecture, Research group: EDGE
Authors: Joutsiniemi, A.
Publication date: 2014
Peer-reviewed: Yes

Publication information
Journal: Yhdyskuntasuunnittelu
Volume: 52
Issue number: 4
HIMMEli for comprehensive transport planning and development planning

General information
State: Published
Ministry of Education publication type: B3 Non-refereed article in conference proceedings
Organisations: School of Architecture
Authors: 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
Links:
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: Scientific › Conference contribution

Kehitysvammaisten asuminen uudistuu

General information
State: Published
Ministry of Education publication type: D1 Article in a trade journal
Organisations: School of Architecture
Authors: 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
Links:
http://www.ara.fi

Bibliographical note
Contribution: organisation=ark,FACT1=1<br/>Portfolio EDEND: 2014-12-30
Source: researchoutputwizard
Source-ID: 446
Research output: Professional › Article

Kuinka tehdään kaupunkia kaupunkiin

General information
State: Published
Ministry of Education publication type: E1 Popularised article, newspaper article
Omannäköistä asumista : Visioita kehitysvammaisten asumiseen


General information
State: Published
Ministry of Education publication type: C2 Edited books
Organisations: School of Architecture
Authors: 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
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
Links:

Bibliographical note
Contribution: organisation=ark,FACT1=1<br/>Portfolio EDEND: 2014-12-30
Source: researchoutputwizard
Source-ID: 448
Research output: Scientific - peer-review › Anthology

Public spaces, experience and conflict: The Cases of Helsinki and Tallinn

General information
State: Published
Ministry of Education publication type: A3 Part of a book or another research book
Authors: Lehtovuori, P., Kurg, A., Schwab, M., Ermert, S.
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
State: Published
Ministry of Education publication type: D4 Published development or research report or study
Organisations: School of Architecture
Authors: 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
Original language: English
Electronic versions:
towards_a_sustainable_skanssi
Links:

Bibliographical note
AUX=ark,"Del Barrio Batista, Juan"
Versio ok 14.12.2015
Research output: Professional › Commissioned report

Annikin puutalokorttel - uusi elämä asukasvetoisesti

General information
State: Published
Ministry of Education publication type: D1 Article in a trade journal
Organisations: School of Architecture
Authors: 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: Rakennustarkustyhdys RTY ry; Rakennustietosäätiö RTS
Source: researchoutputwizard
Source-ID: 2283
Research output: Professional › Article
From momentary to historic: Rhythms in the social production of urban space, the case of Calcada de Sant'Ana, Lisbon

Havaintoja yhteisöasumisesta
Kaupungista välittäminen : reitityksiä kohti urbaania mannerta

General information
State: Published
Ministry of Education publication type: B2 Part of a book or another research book
Organisations: School of Architecture
Authors: 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.

Bibliographical note
Contribution: organisation=ark,FACT1=1<br/>Portfolio EDEND: 2013-12-29
Source: researchoutputwizard
Source-ID: 2459
Research output: Scientific › Chapter

Kaupunkimaisuuden näkökulma

General information
State: Published
Ministry of Education publication type: D1 Article in a trade journal
Organisations: School of Architecture
Authors: 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 Arkkitehtiliitto
Mität, mallinnettu ja koettu lämpöviitaryys toimistohuoneessa

General information
State: Published
Ministry of Education publication type: B3 Non-refereed article in conference proceedings
Organisations: School of Architecture
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.

Publication series
Name: SIY Raportti
ISSN (Print): 1237-1866

Bibliographical note
Contribution: organisation=ark,FACT1=1<br/>Portfolio EDEND: 2013-12-29<br/>Publisher name: Suomen Arkitehtiliitto
Source: researchoutputwizard
Source-ID: 2760
Research output: Professional › Article

Mität, mallinnettu ja koettu lämpöviitaryys toimistohuoneessa

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
State: Published
Ministry of Education publication type: B1 Article in a scientific magazine
Organisations: School of Architecture
Authors: 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
Näkökulma vanhaan vaihtuu : Towards transformation

General information
State: Published
Ministry of Education publication type: D1 Article in a trade journal
Organisations: School of Architecture
Authors: 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

Näsilinna 2013. Erikoiskurssi historiallisen arvorakennuksen dokumentoinnista

General information
State: Published
Ministry of Education publication type: C2 Edited books
Organisations: School of Architecture
Authors: Kalakoski, I. (ed.)
Number of pages: 98
Publication date: 2013

Publication information
Publisher: Tampereen teknillinen yliopisto; Tampereen museopalvelut / Pirkanmaan maakuntamuseo
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
Links:

Bibliographical note
On esipuhe<br/>Contribution: organisation=ark,FACT1=1<br/>Portfolio EDEND: 2013-12-29
Source: researchoutputwizard
Source-ID: 2457
Research output: Scientific - peer-review › Anthology
Panu Lehtovuori - professori teorian ja käytännön välissä

General information
State: Published
Ministry of Education publication type: D1 Article in a trade journal
Organisations: School of Architecture
Authors: Chudoba, M.
Number of pages: 365
Pages: 7-9
Publication date: 2013
Peer-reviewed: Unknown

Publication information
Journal: Arkitehtiuutiset
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: Professional › Article

Participatory Design when Renovating Premises - Process and Methods

General information
State: Published
Ministry of Education publication type: A4 Article in a conference publication
Organisations: School of Architecture
Authors: Ruohomäki, V., Lahtinen, M., Joutsiniemi, A.
Number of pages: 6
Pages: 1-6
Publication date: 2013

Host publication information
ISBN (Print): 978-9979-72-397-4

Publication series
Name: Annual Conference of the Nordic Ergonomics Society
Links:
http://www.nes2013.is

Bibliographical note
Contribution: organisation=ark,FACT1=1<br/>Portfolio EDEND: 2013-12-29
Source: researchoutputwizard
Source-ID: 3295
Research output: Scientific - peer-review › Conference contribution

Patina herättää tunteita

General information
State: Published
Ministry of Education publication type: B2 Part of a book or another research book
Organisations: School of Architecture
Authors: 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
Suunnitelmallista hajaannusta

General information
State: Published
Ministry of Education publication type: B1 Article in a scientific magazine
Organisations: School of Architecture
Authors: Joutsiniemi, A.
Pages: 4-7
Publication date: 2013
Peer-reviewed: No

Publication information
Journal: Yhdyskuntasuunnittelu
Volume: 51
Issue number: 2
ISSN (Print): 1459-6806
Original language: Finnish

Bibliographical note
Contribution: organisation=ark,FACT1=1<br/>Portfolio EDEND: 2013-12-29
Source: researchoutputwizard
Source-ID: 2458
Research output: Scientific › Chapter

The Extended Home: On design solutions for community oriented housing

General information
State: Published
Ministry of Education publication type: B3 Non-refereed article in conference proceedings
Organisations: School of Architecture
Authors: Helamaa, A.
Number of pages: 13
Pages: 378-391
Publication date: 2013

Host publication information
Publisher: The Findhorn Foundation
Editor: Meltzer, G.
ISBN (Electronic): 978-0-9926310-0-0

Publication series
Name: International Communal Studies Association Conference
Links:

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: Scientific › Conference contribution
Tilamallinnus käyttäjätiedon ja teknisen suunnittelun yhdistäjänä

General information
State: Published
Ministry of Education publication type: B3 Non-refereed article in conference proceedings
Organisations: School of Architecture
Authors: 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.

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: Scientific › Conference contribution

Uusilla menetelmillä kiinni kokemukselliseen tietoon

General information
State: Published
Ministry of Education publication type: A1 Journal article-refereed
Organisations: School of Architecture
Authors: Santaoja, M., Leino, H., Chudoba, M., Bamberg, J., Nieminen, J.
Number of pages: 2
Pages: 1-3
Publication date: 2013
Peer-reviewed: Yes

Publication information
Journal: Versus
Volume: 4
Issue number: 1
ISSN (Print): 2242-3443
Original language: Finnish
Links:
http://www.ays.fi/versus/

Bibliographical note
Contribution: organisation=ark,FACT1=1<br/>Portfolio EDEND: 2013-12-29<br/>Publisher name: Alue- ja ympäristötutkimuksen seura ry.
Source: researchoutputwizard
Source-ID: 3361
Research output: Scientific - peer-review › Article

Yhdyskuntasuunnittelun tulevaisuuksiin tähyämässä

General information
State: Published
Ministry of Education publication type: A1 Journal article-refereed
Organisations: School of Architecture
Authors: Joutsiniemi, A., Jääskeläinen, L., Ahonen, A., Roos, J., Paqvalin, R., Reijula, K., Ahonen, A., Tuomioja, E., Lodenius, S., Marjanen, H.
Pages: 11-55