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

General information
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Ministry of Education publication type: F1 Published independent work of art
Organisations: Architecture, Research group: Architecture: History and Theory
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Echoes - 100 Years in Finnish Design and Architecture: Polin, Vellamo

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Arkkitehtuurin ja tilasuunnittelun vaikutus rakennuksen energiatehokkuuteen

General information
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Ministry of Education publication type: D3 Professional conference proceedings
Organisations: Architecture, Research group: ASUTUT, Tampere University of Applied Sciences (TAMK)
Authors: Moisio, M., Lindberg, T., Kaasalainen, T., Mäkinen, A.
Number of pages: 6
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Place of publication: Tampere
Publisher: Tampereen teknillinen yliopisto, Rakennustekniikka, Rakennusfysiikka
Editors: Vinha, J., Kivioja, H.
Links:
Research output: Professional › Conference contribution

Katsaus vähähiiliisyyden edistämiseen
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.

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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
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
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Organisations: School of Architecture, Research group: Built Environment in Transition
Authors: Kaasalainen, T., Huuhka, S.
Number of pages: 24
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Scopus rating (2014): SJR 0.439 SNIP 0.933 CiteScore 0.63
Scopus rating (2013): SJR 0.23 SNIP 0.387 CiteScore 0.44
Scopus rating (2012): SJR 0.257 SNIP 0.623 CiteScore 0.53
Scopus rating (2011): SJR 0.48 SNIP 0.805 CiteScore 0.75
Scopus rating (2010): SJR 0.428 SNIP 0.535
Scopus rating (2009): SJR 0.178 SNIP 0.324
Scopus rating (2008): SJR 0.17 SNIP 0.177
Scopus rating (2007): SJR 0.186 SNIP 0.132
1965: The Heart of Our Cities


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Organisations: School of Architecture
Authors: Rantanen, A.
Publication date: 28 Mar 2016
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Talopaletti: Ratkaisumalleja urbaaniin pientaloasumiseen

General information
State: Published
Ministry of Education publication type: D5 Text book, professional manual or guide or a dictionary
Organisations: School of Architecture, Research group: ASUTUT
Authors: Hedman, M., Heino, J., Tarpio, J., Teronen, T.
Number of pages: 263
Publication date: 29 Feb 2016
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%.

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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
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Bus Transportation Accessibility - Does It Impact Housing Values?

General information
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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
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Publication date: 2016

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

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.
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. Contradictive 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.
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.
Indicators for self-organization potential in urban context

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

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Mikä estää joustavan asuntorakentamisen?

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Organisations: School of Architecture, Research group: ASUTUT
Authors: Kotilainen, S., Hedman, M.
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http://www.ara.fi/fi-
FI/ARAtietopankki/ARAviesti/ARAviestin_verkkoartikkelit/Mika_estaa_joustavan_asuntorakentamisen(35611)
http://urn.fi/URN:NBN:fi:ttty-201705171413
Links:
http://www.ara.fi/fi-
FI/ARAtietopankki/ARAviesti/ARAviestin_verkkoartikkelit/Mika_estaa_joustavan_asuntorakentamisen%2835611%29
Research output: Professional › Chapter
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

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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.
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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
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Scopus rating (2000): SJR 0.582 SNIP 0.938
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DOIs: 10.1016/j.resconrec.2015.05.017
Links:
Obstacles and opportunities for the reuse of structural elements
The revised Waste Framework Directive (WFD) obliges Member States to improve material recycling. The EU's objective is to achieve a recycling rate of 70% for construction waste by the year 2020. Direct re-use of building elements is one way to support the objective.

In a national ReUSE project jointly funded by the Ministry of the Environment, VTT Technical Research Centre of Finland, Tampere University of Technology, Ekokem and Finnish Wood Research, the obstacles to and opportunities for re-use of structural elements were evaluated. The project addressed the potential and challenges currently facing the re-use of elements from existing buildings and design for re-use in new buildings. Number of case studies in which elements have been used in new buildings has also been mapped in the project.

Returning the structural components back to service in the built environment is a rather complex process affecting all the parties involved in the life cycle. Designers have to consider the new source of materials and carefully plan for deconstruction, increased demand for coordination and flexibility in decision making will be needed during construction, and finally new business areas can be opened up to provide services for the phase between deconstruction and new building. The process also depends strongly on the size and complexity of the element or structure that is being re-used.

Re-use of building elements without re-processing saves almost all of their embodied impacts and preserves their economic and cultural value. This has been always seen as the biggest opportunity to increase environmental efficiency of
the built environment. In most of the cases the presented concept competes with other recovery strategies, and therefore its feasibility has to be always evaluated. Moreover, it is possible to extend the service life of such composite elements in existing building stock that cannot be easily recycled because of difficult material separation. Re-use creates many business opportunities in the local communities especially for re-distribution of salvaged material. In many cases is also cheaper to dismantle building part-by-part and sell the components than traditional demolition and waste processing. In that sense we can conclude that re-use concept is contributing to all aspects of sustainability of the built environment.

Unfortunately, there are many practical barriers to the building components re-use that should be addressed. One is the lack of strength grading rules for materials in re-used elements. This means that re-usable load-bearing components are forced to be applied for non-structural purpose unless they are thoroughly tested. Another barrier is the difficult deconstruction of existing buildings. The extended time and high demands on manual labour is usually increasing the cost of the whole process. This can be partly improved by applying standardized deconstruction practices, proper staff training and using selected technologies for deconstruction. However, the greatest impact on the building re-usability is in its design stage. Therefore we recommend addressing this issue in the planning of future steps towards resource efficiency.

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Organisations: School of Architecture, Research group: Built Environment in Transition, VTT Tech Res Ctr Finland, VTT Technical Research Center Finland
Authors: Hradil, P., Huuhka, S., Wahlström, M.
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Full papers on USB
Research output: Scientific - peer-review › Conference contribution

Betonilähiö joustaa muuttuvin asumistarpeisiin

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Organisations: School of Architecture, Research group: ASUTUT, Tampere University of Technology
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Peer-reviewed: Unknown

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ASJC Scopus subject areas: Architecture
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Research output: Professional › Commissioned report

Kutsuttuna kuvataiteilijana: luonnos Nokian Harjuniityn koulukeskuksen julkiseksi taideteokseksi: kilpailevat luonnokset tilattu neljältä taiteilijalta. ei toteutusta.

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Organisations: School of Architecture
Authors: Soini, H.
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Research output: Solo art production - peer-review › Artefact

Asukaslähtöinen puukerrostalokorttelit 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.

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Organisations: School of Architecture, Research group: ASUTUT
Authors: Kotilainen, S., Hedman, M.
Library as a Partner in Co-Designing Learning Spaces: A Case Study at Tampere University of Technology, Finland

This article presents a case of co-designed temporary learning spaces at a Finnish academic library, together with the results of a user-survey. The experimental development of the multifunctional spaces offered an opportunity for the library to collaborate with its parent organisation thus broadening the role of the library. Hence, library can be seen as a third player facilitating learning spaces. Additionally, the library’s own expertise was strengthened through successful cooperation with the undergraduate students and other actors. The results support prior research, where studying in the library is target-oriented differing from other learning spaces in providing support and resources.

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Scopus rating (2014): SJR 1.027 SNIP 0.844 CiteScore 0.71
Scopus rating (2013): SJR 1.222 SNIP 1.598 CiteScore 0.96
Scopus rating (2012): SJR 0.635 SNIP 0.66 CiteScore 0.48
Scopus rating (2011): SJR 0.718 SNIP 1.32 CiteScore 0.67
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ASJC Scopus subject areas: Library and Information Sciences
DOIs: 10.1080/13614533.2015.1025147

Bibliographical note
publication_forum:64000
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.
Growth of Urban Peripheries with Reference to Inconsistent Spatial Planning Policies: South-east Amman as case study

The rapid random spatial growth of the urban peripheries of Amman calls for an immediate reconsideration of the enforced planning policies that govern the spatial growth of those settlements. However, an overall assessment of the current planning mechanisms is urgently needed. The article addresses some spatial factors which are impacting the peripheral growth at the south-eastern edge of Amman. It includes the urban land policies that are generated by Greater Amman Municipality GAM. The adoption of decentralization as a prevailing framework for urban policy in the latter two GAM master plans forms a turning point at the planning level. Such concept has evolved through the application of rigid frameworks that culminated into complex urban superposition.

This study deals with a marginal settlement which lies at the south-eastern edge of the Greater Amman Municipality, i.e. Muwaqqer. The analysis intends to explore how Muwaqqer has expanded randomly, testing in the meantime the relationship between Amman city core and its peripheral settlements both spatially and functionally. Light shall also be shed on the two major master plans of GAM: The Greater Amman Comprehensive and Development Plan (GACDP) of 1986, and the Amman Master Plan: Metropolitan Growth of 2008, tackling their impact on the peripheral district in question.

The study proposes some feasible planning measures to pave the way for better control of the rapid urban growth at the peripheral areas with the aim to mitigate the negative aspects which adversely affecting the urban structure of Amman. However, the paper also examines the urban transformation of the chosen settlement which further aggravates the multi-jurisdictional divisions that initially meant to sustain an urban uniformity for a modern Amman entity.
jaettujen resurssien toimintamallit tarjoaa mahdollisuuden kehittää ja ylläpitää state-of-art -laboratorioympäristöjä.

**General information**
State: Published
Ministry of Education publication type: D2 Article in professional manuals or guides or professional information systems or text book material
Organisations: School of Architecture, Research group: Public Buildings
Authors: Yläoutinen, J., Peltoniemi, S.
Number of pages: 10
Pages: 350-359
Publication date: Mar 2015

**Host publication information**
Title of host publication: Oppiva kampus : How to co-create campus?
Place of publication: Tampere
Publisher: Suomen Yliopistokiinteistöt Oy
Editors: Nenonen, S., Kärnä, S., Junnonen, J., Tähtinen, S., Sandström, N.

**Bibliographical note**
EXT="Yläoutinen, Jyrki"
Research output: Professional › Chapter

"Uudet arkkitehtoniset ratkaisumallit muuttavat kampuksien ilmettä
Uudet pedagogiset oivallukset sekä tekniset innovaatiot ovat radikaalisti muokanneet yliopisto-oppimista, mikä asettaa merkittäviä kehitystarpeita myös oppimistiloille. Uudenlaiset oppimistavat vaativat uudenlaisia tiloja ja paikkoja, jotka tukevat oppimista parhailla mahdollisilla tavalla. Artikkelissa pohditaan kuinka kampuksia voidaan elävittää arkkitehtuurin keinoin? Miten eri mittakaavalliset ratkaisut tukevat oppimista, vuorovaikutusta sekä luovuutta?"
MASTRA: Strateginen kaavakartta - maakuntakaavamerkintöjen ja -määäristysten uudet lähestymistavat - osa C

General information
State: Published
Ministry of Education publication type: D4 Published development or research report or study
Organisations: School of Architecture, Research group: EDGE
Authors: 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
Links:
http://maakuntakaava2040.pirkanmaa.fi/sites/default/files/Mastra_C_NETTIIN.pdf
Research output: Professional › Commissioned report

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
State: Published
Ministry of Education publication type: D1 Article in a trade journal
Organisations: School of Architecture, Research group: Built Environment in Transition, Tampere University of Technology
Authors: 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
Links:
http://www.ara.fi/download/noname/%7B3C577C2D-064A-471F-92DA-0E877972A389%7D/106508
Research output: Professional › Article

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
State: Published
Ministry of Education publication type: A1 Journal article-refereed
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.
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

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: 2
ISSN (Print): 1459-6806
Original language: Finnish
Links:
http://www.yss.fi/journal/ainutkertaisten-tarpeiden-tragedia/
Research output: Scientific - peer-review › Editorial

Arkinen liikkuminen kontekstina kaupunkitilan tarkasteluun

General information
State: Published
Organisations: School of Architecture
Authors: Tartia, J.
Publication date: 2015
Children and youth transport in different urban morphological types

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

We found that walking and cycling was most prominent in residential environments and least common in mixed use areas with offices. Environments with big commercial buildings as well as green environments had the highest proportions of car use. Most places, in general, were visited with friends, but most typically, areas with big commercial buildings and mixed use areas with offices were reached in the company of friends. Relatively many places were visited alone in residential areas.
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 ambiences 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 ambiences. 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.
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: Arkkitehti
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
Authors: Chudoba, M.
Number of pages: 2
Pages: 12-13
Publication date: 2015
Peer-reviewed: Unknown

Publication information
Journal: Arkkitehti
Issue number: 10
ISSN (Print): 0044-8915
Original language: Finnish
Links:
http://www.e-julkaisu.fi/SAFA/au_arkkitehtiutiset/10_2015/
Research output: Professional › Article

Key concepts in urban studies: 2nd edition

General information
State: Published
Ministry of Education publication type: C1 Separate scientific books
Organisations: School of Architecture, Research group: Built Environment in Transition, Research group: Urban Planning Theory
Authors: 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
Links: 
https://uk.sagepub.com/en-gb/eur/key-concepts-in-urban-studies/book234192
Research output: Scientific › peer-review › Book

Kilpailuista toteutukseen, Arkkitehtitoimisto Lahdelma&Mahlamäki Oy

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 › Exhibition

Koteja ja kokonaistaideteoksia

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: 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: Professional › Article

Meeting of Vernacular and Modern Architecture in Urbino: Giancarlo De Carlo and reading of the context

General information
State: Published
Ministry of Education publication type: B2 Part of a book or another research book
Organisations: School of Architecture, Research group: History of Architecture
Authors: 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: Scientific › Chapter

Muutoksii: Second-generation Immigrants’ Movie Workshop in Helsinki
Novel architectural solutions change campus design

The change in the learning paradigm from transmission of information to an active learning model is evident in higher education, too. From solitary to group work, from virtual to learning by doing, all means and methods are possible. Like a lively city, so do our campus premises need to support a greater variety of spaces, as learning is becoming more and more diverse. How does architecture, in different scales and different solutions, enliven the existing university campus?

From holistic to small surgical operations, architectural solutions are presented on three different scales; campus, building, and group of space. Pervasive solutions, in which the whole layout is drastically changed, possess potential in changing essentially human interaction and how the building is used. However, these solutions are slow and expensive to execute. Then again, targeted learning space solutions, created, for example, in an area of formerly supporting spaces, are less expensive but have an impact only in the vicinity or for a certain group of users. The existing premises of campuses possess a huge potential to be turned into vivid urban centers that support learning and research of the future. Hence, the existing buildings can be seen as platforms for novel architectural solutions, and stages to present universities state-of-the-art education and research. The outcomes of the research can be applied in different design stages and scales of campus environments. The article aims at evoking readers to ponder on novel and innovative solutions that could be used in campus development, and can be seen as a conversation opener for designers, campus developers and users. The visions presented in this article inspire readers to look upon campuses from a new perspective through innovative examples and spatial solutions.
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

Postmodernismi Suomen rakennusperinnössä

**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: 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: Professional › Article

Proffana provinsiisissa

**General information**
State: Published
Ministry of Education publication type: D1 Article in a trade journal
Organisations: School of Architecture, Research group: Urban Laboratory
Authors: Hynynen, A.
Number of pages: 2
Pages: 32-33
Publication date: 2015
Peer-reviewed: Unknown

**Publication information**
Journal: Arkkitehtiuutiset
Issue number: 9
ISSN (Print): 0044-8915
Original language: Finnish
Links:
Research output: Professional › Comment/debate
Puut-Hubi: Perinteestä uusiin innovaatioihin


Seinäjoen Ammattikorkeakoulun ja Tampereen teknillisen yliopiston yhteistyössä käynnistämä Puu-Hubi-projekti pyrki edistämään eteläpohjalaisia 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 rönsyvät omia uomiaan kohti yhteistä aiheuttamme, suomalaisen puurakentamisen uutta tulemista.
Raitioten seisakkeet: Yhdyyskuntasuunnittelun jatkokurssi A ja B
Vuoden 2014 Yhdyyskuntasuunnittelun jatkokurssin aiheena oli Tampereelle toteutettava kaupunkiraitiotie, joka tulee helpottamaan huomattavasti kulkemista Tampereella tulevaisuudessa.

Kurssi oli sisäillisä ja osallistujiltaan epätyylisä. Osallistujia kurssilla oli useammasta eri tiedekunnasta: Tampereen teknillisen yliopiston arkkitehtiopiskelijoita ja liikennesuunnittelun opiskelijoita, Tampereen yliopistolta psykologian sekä sosiologian opiskelijoita.


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
Number of pages: 74
Publication date: 2015
Stirring the Construction Project Management with Co-creation and Continuous Improvement

Abstract Gathering information that is capable to explain customers’ needs is usually seen as a quite straightforward part of the traditional construction process: a customer should be able to tell all relevant needs in the first stage so that a building could be designed and built according to the gained information. But the process is lacking of service abilities if a customer wants to modify the given information due to a change in circumstances, albeit such a change is easily caused due turbulent economic situations and long spans in real-estate development projects. Hence the customer perspective regarding the construction management (CM) process should be accommodated better. In this paper, the case studies of the four premises improvement projects are reported upon, where the CM process was altered to include and apply the concepts of continuous improvement and co-creation. The process documentation covered the impacts of the case project on the usability of the premises, the indoor climate conditions (carbon dioxide and temperature) metering, the time lapse cameras and the on-line user feedback system. The documentation consists of the minutes of the meetings, the financial reporting and the time tables. Both the processes and the results of the projects are analysed. Based on the key findings, some suggestions are put forth upon how to improve the CM process to better serve customer interests and quality improvement in the future.

General information
State: Published
Ministry of Education publication type: A1 Journal article-refereed
Organisations: Department of Civil Engineering, Research group: Construction Management, School of Architecture
Authors: Savolainen, J., Kähkönen, K., Niemi, O., Poutanen, J., Varis, E.
Number of pages: 8
Pages: 64-71
Publication date: 2015
Peer-reviewed: Yes

Publication information
Journal: Procedia Economics and Finance
Volume: 21
ISSN (Print): 2212-5671
Original language: English
Keywords: Co-creation, construction management, continuous improvement, customer relations management, quality management
DOIs: 10.1016/S2212-5671(15)00151-3

Bibliographical note
ORG=rak,1
ORG=ark,0
Source: RIS
Source-ID: urn:76EF98A938A43DE456AFD5111BF4116C
Research output: Scientific - peer-review › Article

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
Sustainable Design Studio 2014

The City of Tampere is experiencing a great regeneration boom. Several central areas are under redevelopment. The Hakametsä area is one of them. The ice hockey hall of Hakametsä and the surrounding commercial areas will be redeveloped in the near future. The identity and integrated sustainable urban solutions unifying the entire Hakametsä area is becoming a key issue.

The sustainable Design Studio 2014 looked at the opportunities related to sustainable redevelopment of the new city district. In particular, the focus was in the intersection of Hervannan valtaväylä and Sammon valtatie. Currently this intersection divides the area in separate and isolated sections with very scattered street space and difficult accessibility for light-traffic. The restructuring of the entire city structure could offer several opportunities for more sustainable city district in connection to the new tram line.

The task for the students had to two parts with different objectives and urban scales. The first part included a group work analysis on the Hakametsä area and designing a new urban strategy for a sustainable city district. The lack of overall scheme for the area motivated the students to look at the intersection area as the point for connecting the four sectors divided by Hervannan valtaväylä and Sammon vallatie.

The second individual part of the assignment consisted of designing additional floors to an existing residential building next to the Hakametsä ice hockey rink. The work aimed at creating appealing typological solutions for attractive in-fill architecture thus increasing the opportunities for densification of the 70s residential areas at large. The starting point for the design was the structural system developed in KORKO research project of the Tampere University of Technology. The research project delivered a concept for a prefabricated steel structure allowing fast and affordable assembly of prefabricated wooden housing modules. The objective of the course was to connect university education and research in a mutually benefiting way that is motivating for the students.

The results of the studio provided a comprehensive overview of different approaches to reshape the urban plan for more sustainable city structure. The need for the new character of Hervannan valtaväylä became evident. Should the road be a main artery focusing on delivering the traffic flows, or, is it part of integrated city structure potentially lowering the speeds of vehicles and calling for improved light-traffic 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.
Tammerkoski ja Hämeenkatu Tampereen arkkitehtonisen identiteetin ankkureina

General information
State: Published
Ministry of Education publication type: D2 Article in professional manuals or guides or professional information systems or text book material
Organisations: School of Architecture
Authors: Koponen, O.
Number of pages: 8
Pages: 35-42
Publication date: 2015

Host publication information
Title of host publication: Tampereen tarina : Teollisuuden synnyttämä kaupunki harjujen ja järvien solmukohdassa
Volume: Julkaisuja 5/2015
Place of publication: Kaupunkiympäristön kehittäminen
Publisher: Tampereen kaupunki
Editor: Hautamäki, R.
ISBN (Print): 978-951-609-783-4

Publication series
Name: Tampereen kaupunki/Kaupunkiympäristön kehittäminen
Publisher: Tampereen kaupunki
Volume: 5/2015
ISSN (Print): 1797-321X
Links:

Taskinen yksissä kansissa

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: Passinmäki, P.
Number of pages: 2
Pages: 89-90
Publication date: 2015
Peer-reviewed: Unknown

Publication information
Journal: Arkkitehti
Issue number: 2
ISSN (Print): 0783-3660
Original language: Finnish
Research output: Professional › Chapter

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
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
Links: http://www.aesop2015.eu/

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 ehdolla: moninaisuutta asumamuotoihin
Place of publication: Helsinki
Publisher: RAKENNUSTIETO OY
ISBN (Print): 978-952-267-100-4

VASARA for MapInfo

General information
State: Published
Ministry of Education publication type: I2 ICT software
Organisations: School of Architecture, Research group: EDGE
Authors: Joutsiniemi, A., Vanhatalo, J.
Publication date: 2015
Media of output: Other
Research output: Scientific › Software

What makes a Place? Claiming Spaces for Informal and Social Learning
How to redesign an under-used secondary space into a lively social and informal learning space? Here, three case studies are compared to shed light on what spatial elements create a Place for learning. At many university premises, informal learning spaces are often limited to libraries and social interactions to cafés. However, secondary spaces, such as halls and corridors, which are located in popular areas on campuses, have great potential when redesigned into novel social and informal learning spaces, which increases the efficiency of the spaces, too. The cases differ in design and development manners: two novel learning spaces created in a lobby, a renovation of a campus café and co-created learning spaces in an academic library. The cases offer practical implications and elements on how to create new learning spaces successfully. Common for all these cases is the positive feedback produced by a pleasant, uplifted environment. These realized cases suggest that relatively small, acupuncture-like changes to existing spaces can create a relatively big impact.
Arbitrary Land Use Policy in Jordan between Legal Brand and Property Control

The absence of appropriate land use planning, leapfrog population growth, and high demand for urban land persist among the prevailing urban characteristics of Amman. Generally, land use policy in Jordan, and particularly in Amman remains out of control because of some social considerations and inconsistent laws. Such phenomenon creates serious problems related to the local land market. This paper attempts to address the wide gap between land supply and demand through analysis of the relevant institutional framework, land governance, land policy and practice in Jordan. However, the historical background of land proprietorship is given parallel to the overall institutional framework of land regulation. The magnitude and reason for legal land tenure along the proposed urban corridors shall also be examined.

A Deep Organic Re-reading of Alvar Aalto’s Design Approach

Host publication information
Title of host publication: XVI Kaupunkifoorumi Hämeenlinnassa 23.-24.9.2014
Publisher: Työ- ja elinkeinoministeriö
Links:
http://www.tem.fi/kaupunkifoorum2014
Research output: Professional › Conference contribution

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

A Deep Organic Re-reading of Alvar Aalto’s Design Approach

General information
State: Published
Ministry of Education publication type: A4 Article in a conference publication
Organisations: School of Architecture
Authors: Hynynen, A.
Number of pages: 12
Pages: 28-39
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: 2014-12-30
Source: researchoutputwizard
Source-ID: 528
Research output: Scientific - peer-review › Conference contribution
Asumisen katselmus: 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
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: Professional › Article

BDR/ School Building, School of Architecture: Joensuu Primary School

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: 2014
Research output: Solo art production - peer-review › Architecture

Betonipinnan kolmas ulottuvuus: TTY:n Arkkitehtuurin laitoksen betonistudio 2013

General information
State: Published
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: D1 Article in a trade journal
Organisations: School of Architecture
Authors: 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
Links:

Bibliographical note
Contribution: organisation=ark,FACT1=1<br/>Portfolio EDEND: 2015-01-10
Source: researchoutputwizard
Source-ID: 405
Research output: Professional › Article

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 elähtänyttä

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
Eliel Saarinen ja korkean rakentamisen ristiriita

General information
State: Published
Ministry of Education publication type: A1 Journal article-refereed
Organisations: School of Architecture
Authors: 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: Scientific - peer-review › Article

Empathy in Architecture

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

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: Scientific › Conference contribution

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,FAC1T1=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

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**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/fraktaalit-alueellisuuden-perustaa-murentamassa/
Research output: Scientific - peer-review › Literature review

**Future-oriented building stock studies and the significance of values: addressing demolition behaviour with the Delphi method**

**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: 8
Pages: 56-63
Publication date: 2014

**Host publication information**
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,FAC1T1=1<br/>Portfolio EDEND: 2014-12-30<br/>Publisher name: Delft University of Technology, DCMat Ageing Centre
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: Iltnen, 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

Huippupuhujia Arkkitehtuurnvllkolla

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: 2
Pages: 16-17
Publication date: 2014
Peer-reviewed: Unknown

Publication information
Journal: Arkkitehtiuutiset
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: Professional » Article

Interactive and Engaging Social Learning Spaces for Collaboration

General information
State: Published
Ministry of Education publication type: A4 Article in a conference publication
Organisations: School of Architecture
Authors: Poutanen, J., Syvänen, A., Frydenberg, M., Turunen, M., Walton, G.
Number of pages: 6
Pages: 1429-1434
Publication date: 2014
Kohti kestävää Skanssia

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: Tampereen teknillinen yliopisto. Arkkitehtuurin laitos
Original language: Finnish
Electronic versions:
kohti_kestavaa_skanssia
Links:

Bibliographical note
Versio ok 14.12.2015
Research output: Professional › Commissioned report

Kuinka tehdään kaupunkia kaupunkiin

General information
State: Published
Ministry of Education publication type: E1 Popularised article, newspaper article
Organisations: School of Architecture
Authors: Hynynen, A.
Number of pages: 1
Publication date: 2014

Publication information
ISSN (Print): 0356-1283
Original language: Finnish
Links:
http://www.ilkka.fi/mielipide/yleis%C3%B6lt%C3%A4/kuinka-tehdaan-kaupunkia-kaupunkiin-1.1722306

Bibliographical note
Contribution: organisation=ark,FACT1=1<br/>Portfolio EDEND: 2014-12-30
Omannäköistä asumista : Visioita kehitysvammaisten asumiseen

Käsillä oleva kirja tarjoaa ajankohtaisen katsauksen yksilöllisemmän asumisen mahdollisuksista sekä visioita erityistä tukea tarvitsevien asuntojen ja asuinmyyriäisten kehittämiseen. Kyseessä on Tampereen teknillisen yliopiston arkkitehtuurin laitoksella suunnitellun kurssin toteutetun KEHASU - kehitysvammaisten uusien asumisratkaisujen suunnittelu-yhteenveto. Kirja on koottu kurssilla laaditusta opiskelijatöistä.

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

On-campus Third Places for Collaborative Use and BYOD

General information
State: Published
Ministry of Education publication type: A4 Article in a conference publication
Organisations: School of Architecture
Authors: Poutanen, J., Syyrinen, A.
Number of pages: 7
Pages: 1395-1401
Publication date: 2014

Host publication information
Title of host publication: Proceedings of World Conference on Educational Multimedia, Hypermedia and Telecommunications; EdMedia 2014, World conference on educational Media and Technology, Dates: June 23 - 26, 2014, Location: Tampere, Finland
Publisher: Association for the Advancement of Computing in Education (AACE)
ISBN (Electronic): 978-1-939797-08-7

Publication series
Name: World Conference on Educational Multimedia, Hypermedia and Telecommunications
Volume: 2014
No.: 1
Links:
Orimattilan Henna

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.)
Number of pages: 89
Publication date: 2014

Publication information
Publisher: Tampereen teknillinen yliopisto. Arkkitehtuurin laitos
Original language: Finnish
Electronic versions:
orimattilan_henna
Links:

Bibliographical note
Versio ok 16.12.2015
Research output: Professional › Commissioned report

Peukuttelevaa osallistumista ja ilon kautta suunnittelua

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: 1
ISSN (Print): 1459-6806
Original language: Finnish
Links:
http://www.yss.fi/journal/peukuttelevaa-osallistumista-ja-ilon-kautta-suunnittelua/
Research output: Scientific - peer-review › Editorial

Pientaloa parempi? Better than an individual small house?

General information
State: Published
Ministry of Education publication type: D1 Article in a trade journal
Organisations: School of Architecture
Public Pop-Up Spaces: From Prototyping to a Method of Revealing User-Attitudes

General information
State: Published
Ministry of Education publication type: A4 Article in a conference publication
Organisations: School of Architecture
Authors: Poutanen, J.
Number of pages: 11
Pages: 13-23
Publication date: 2014

Host publication information
Title of host publication: ATUT Proceedings, 5th Annual Symposium of Architectural Research, ARCHITECTURE AND RESILIENCE, August 28-30, 2013 Tampere, Finland
Place of publication: Tampere
Publisher: Tampere University of Technology, School of Architecture
Editors: Chudoba, M., Joachimiak, M., Laak, M., Lehtovuori, P., Partanen, J., Rantanen, A., Siter, N.
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-ID: 1297
Research output: Scientific - peer-review › Conference contribution

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.
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.
Suomen aluerakenteen ja liikennejärjestelmän kehityskuva : Ennakointiteemojen ja tulevaisuuskuvien alueelliset näkökulmat. Osaraportti 2

General information
State: Published
Ministry of Education publication type: D4 Published development or research report or study
Organisations: Department of Information Management and Logistics, Research group: Urban Laboratory, Suomen ympäristökeskus SYKE - Finnish Environment Institute, Department of Information Management and Logistics, University of Eastern Finland, Turun yliopisto
Authors: 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
Links:

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: Professional › Commissioned report
Tieteen tuhti perspuoli

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: 3
ISSN (Print): 1459-6806
Original language: Finnish
Links:
http://www.yss.fi/journal/tieteen-tuhti-perspuoli/
Research output: Scientific - peer-review › Editorial

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:

Vanhasta puusta uutta arkkitehtuuria / New architecture from old wood

General information
State: Published
Ministry of Education publication type: D1 Article in a trade journal
Organisations: School of Architecture, Research group: Built Environment in Transition
Authors: Huuhka, S.
Well-being Architecture in Academic Workplace

General information
State: Published
Ministry of Education publication type: B3 Non-refereed article in conference proceedings
Organisations: School of Architecture
Authors: Peltoniemi, S.
Number of pages: 8
Pages: 283-290
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: 523
Research output: Professional › Article

Where Do you Start to Design a Dwelling?

General information
State: Published
Organisations: School of Architecture
Authors: 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.

Bibliographical note
Contribution: organisation=ark,FACT1=1<br/>Portfolio EDEND: 2015-01-11
Source: researchoutputwizard
Source-ID: 1261
Research output: Scientific › Conference contribution
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: Scientific › Other chapter contribution

Yhdessä

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: 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 Arkkitehtiliitto
Source: researchoutputwizard
Source-ID: 447
Research output: Professional › Article

A Designed Third Place as Social Learning Space in Higher Education - Case Motivaattori

General information
State: Published
Ministry of Education publication type: A4 Article in a conference publication
Organisations: School of Architecture
Authors: Poutanen, J.
Number of pages: 10
Pages: 688-697
Publication date: 2013

Host publication information
Publisher: IATED
ISBN (Print): 978-84-616-2661-8
Links:
http://www.inted2013.org

Bibliographical note
Contribution: organisation=ark,FACT1=1<br/>Portfolio EDEND: 2014-10-08<br/>Publisher name: iated
Source: researchoutputwizard
Source-ID: 3179
Research output: Scientific - peer-review › Conference contribution

Aidot vanhat & kopiot

General information
State: Published
Ministry of Education publication type: E1 Popularised article, newspaper article
Arkitehtuuria neurotieteiden valossa

General information
State: Published
Ministry of Education publication type: D1 Article in a trade journal
Organisations: School of Architecture
Authors: Tuunanen, A.
Number of pages: 2
Pages: 22-23
Publication date: 2013
Peer-reviewed: Unknown

Publication information
Journal: Arkitehtiuutiset
Volume: 65
Issue number: 6-7
ISSN (Print): 0044-8915
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: 3592
Research output: Professional › Article

Arkitehtuuri in Moduulirakentaminen: Teräskennoteknologian mahdollisuudet

General information
State: Published
Ministry of Education publication type: D4 Published development or research report or study
Organisations: School of Architecture
Authors: 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
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
Links:

Bibliographical note
Contribution: organisation=ark,FACT1=1<br/>Portfolio EDEND: 2013-12-29
Source: researchoutputwizard
Source-ID: 2635
Artikkeli: Vehreällä ehdotuksella voittoon Hyvinkään ideakilpailussa

Can the new cosmology, cosmogenesis, serve as a basis for a shared value system in architecture? On Charles Jencks

From momentary to historic: Rhythms in the social production of urban space, the case of Calcada de Sant’Ana, Lisbon

**General information**
State: Published
Ministry of Education publication type: A1 Journal article-refereed
Organisations: School of Architecture, Institute of Society and Space (SOCIS)
Authors: Lehtovuori, P., Koskela, H.
Pages: 124-143
Publication date: 2013
Peer-reviewed: Yes

**Publication information**
Journal: Sociological Review
Volume: 61
Informaatiohippasilla

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: 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: Scientific › Article

Johdanto: Arkkitehtipiskelijat Näsilinnassa

General information
State: Published
Ministry of Education publication type: D4 Published development or research report or study
Organisations: School of Architecture
Authors: Kalakoski, I., Kuitunen, H.
Number of pages: 1
Publication date: 2013

Publication information
Publisher: Tampereen teknillinen yliopisto
Original language: Finnish

Publication series
Name: Tampereen teknillinen yliopisto. Arkkitehtuurin laitos. Arkkitehtuurin historia
Publisher: Tampereen teknillinen yliopisto
Volume: 1
ISSN (Print): 2341-9865
Links:

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

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
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: Arkitehti
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
Source-ID: 2758
Research output: Professional › Article


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

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.
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: Scientific › Chapter

Kokemuksia Torontosta : Maailman parhaat kaupungit -kurssin nr 1 raportti

General information
State: Published
Ministry of Education publication type: C2 Edited books
Organisations: School of Architecture
Publication date: 2013

Publication information
Place of publication: Helsinki
Publisher: URBANISMISÄÄTIÖ
ISBN (Print): 978-952-93-2340-1
Original language: Finnish
Links:
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: Scientific - peer-review › Anthology

Kolme tapaa korjata lähiökerrostalo : Three ways to renovate neighbourhood units

General information
State: Published
Ministry of Education publication type: D1 Article in a trade journal
Organisations: School of Architecture, Research group: Built Environment in Transition
Authors: Huuhka, S.
Number of pages: 3
Pages: 68-70
Publication date: 2013
Peer-reviewed: Unknown
Kymppi tools for MapInfo: http://www.jyvaskyla.fi/kymppimonikymppir_tools

Lapsia liikuttava kaupunki

Mitattu, mallinnettu ja koettu lämpövihtyvyys 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

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
Moduulirakentaminen. Ratkaisumalleja tulevaisuuden asuntorakentamisen haasteisiin


General information
State: Published
Ministry of Education publication type: D4 Published development or research report or study
Organisations: School of Architecture
Authors: Kotilainen, S.
Number of pages: 207
Publication date: 2013

Publication information
Publisher: Tampereen teknillinen yliopisto. Arkkitehtuurin laitos
Original language: Finnish

Publication series
Name: Tampereen teknillinen yliopisto. Arkkitehtuurin laitos. Asuntosuunnittelu. Julkaisu
Volume: 7
ISSN (Print): 2242-4598
Electronic versions:
kotilainen_moduulirakentaminen.pdf
Links:
Näsilinnan muutos- ja korjaushanke: rakennuksen olemus ja arvostukset

General information
State: Published
Ministry of Education publication type: D4 Published development or research report or study
Organisations: School of Architecture
Authors: Hirvonen, T.
Number of pages: 9
Publication date: 2013

Publication Information
Publisher: Unknown Publisher
Original language: Finnish

Publication series
Name: Tampereen teknillinen yliopisto. Arkkitehtuurin laitos. Arkkitehtuurin historian julkaisuja
Volume: 1
ISSN (Print): 2341-9865
Links:

Bibliographical note
Contribution: organisation=ark,FACT1=1<br/>Portfolio EDEND: 2013-12-29
Source: researchoutputwizard
Source-ID: 2312
Research output: Professional › Commissioned report

Partial dismantling of 1960's to 80's housing estates - a sustainable holistic solution
General information
State: Published
Ministry of Education 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
Authors: Huuhka, S.
Number of pages: 9
Pages: 1031-1039
Publication date: 2013

Host publication information
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: Scientific - peer-review › Conference contribution

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
Title of host publication: Proceedings of the 45th Annual International Conference of the Nordic Ergonomics & Human Factors Society NES 2013. Ergonomics for Equality. 11-14 August 2013, Reykjavík, Iceland
ISBN (Print): 978-9979-72-397-4

Publication series
Name: Annual Conference of the Nordic Ergonomics Society

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
Suunnitelmaillista 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: 2429
Research output: Scientific › Article

Taidenäyttely aika ajast´aikaan: Naantalin taidehuone 21.5.-9.6.2013

General information
State: Published
Ministry of Education publication type: F1 Published independent work of art
Organisations: School of Architecture
Authors: Soini, K.
Publication date: 2013
Media of output: Other

Bibliographical note
Contribution: organisation=ark,FACT1=1<br/>Portfolio EDEND: 2013-10-29
Source: researchoutputwizard
Source-ID: 3438
Research output: Solo art production › Exhibition

Tapaus Kummatti

General information
State: Published
Ministry of Education publication type: D1 Article in a trade journal
Organisations: School of Architecture
Authors: Hagan, H.
Number of pages: 2
Pages: 71-72
Publication date: 2013
Peer-reviewed: Unknown

Publication information
The extended home: On design solutions for community oriented housing

General information
State: Published
Ministry of Education publication type: B1 Article in a scientific magazine
Organisations: School of Architecture
Authors: Helamaa, A.
Number of pages: 15
Pages: 70-84
Publication date: 2013
Peer-reviewed: No

Publication information
Journal: Social Sciences Directory
Volume: 2
Issue number: 4
ISSN (Print): 2049-6869
Original language: English
DOIs:
10.7563/SSD_02_04_07

Bibliographical note
Contribution: organisation=ark,FACT1=1<br/>Portfolio EDEND: 2013-12-29<br/>Publisher name: Social Sciences Directory
Source: researchoutputwizard
Source-ID: 2286
Research output: Scientific › Article

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
The Non-Linear City

General information
State: Published
Ministry of Education publication type: A4 Article in a conference publication
Organisations: School of Architecture
Authors: 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: Scientific - peer-review » Conference contribution

The Trout, the Stream, and the Letting-be. Alvar Aalto's Contribution to the Poetic Tradition of Architecture

General information
State: Published
Ministry of Education publication type: B1 Article in a scientific magazine
Organisations: School of Architecture
Authors: Passinmäki, P.
Number of pages: 9
Publication date: 2013
Peer-reviewed: No

Publication information
Journal: Alvaraaltoresearch.fi
ISSN (Print): 2323-6906
Original language: English
Links:
http://www.alvaraaltoresearch.fi/

Bibliographical note
Contribution: organisation=ark,FACT1=1<br/>Portfolio EDEND: 2013-06-29<br/>Publisher name: Alvar Aalto Museum
Source: researchoutputwizard
Source-ID: 3104
Research output: Scientific » Article

Tilamallinnus käyttäjän tiedon ja tekniikkaan 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
Villa Ornäsin 7 opetusta

General information
State: Published
Ministry of Education publication type: E1 Popularised article, newspaper article
Organisations: School of Architecture
Authors: Saatsi, P.
Number of pages: 5
Pages: 42-46
Publication date: 2013
Peer-reviewed: Unknown

Publication information
Journal: Glorian antiikki
Issue number: 3
ISSN (Print): 1238-5654
Original language: Finnish

Bibliographical note
Contribution: organisation=ark,FACT1=1
Portfolio EDEND: 2013-12-29
Publisher name: Sanoma Magazines Finland Corporation
Source: researchoutputwizard
Source-ID: 3331
Research output: General public › 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
Publication date: 2013
Peer-reviewed: Yes

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

Bibliographical note
Contribution: organisation=ark,FACT1=1
Portfolio EDEND: 2013-12-29
Source: researchoutputwizard
Source-ID: 2430
Research output: Scientific › peer-review › Article

Yhteisöllisyyden siemeniä ilmassa, asiantuntijahaastattelu teokseen

General information
State: Published
Ministry of Education publication type: D2 Article in professional manuals or guides or professional information systems or text book material
Organisations: School of Architecture
Authors: Helamaa, A.
Askeleita kohti yhteisöasumista: Selvitys yhteisöasumisen muodoista ja toteuttamisesta: MONIKKO-hanke: Moninaisten yhteisöllisten asuin- ja toimintamyöpäristöjen kehittämispilotit


General information
State: Published
Ministry of Education publication type: D4 Published development or research report or study
Organisations: School of Architecture
Authors: Helamaa, A.; Pylvänen, R.
Number of pages: 177
Publication date: 2012

Publication information
Publisher: Tampereen teknillinen yliopisto. Arkkitehtuurin laitos
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
Links:

Bibliographical note
Contribution: organisation=ark ars,FACT1=1
Source: researchoutputwizard
Source-ID: 2288
Research output: Professional › Commissioned report

Exploring complex dynamics with a CA-based urban model

General information
State: Published
Ministry of Education publication type: A4 Article in a conference publication
Organisations: School of Architecture
Authors: 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: Scientific - peer-review › Conference contribution