

Uncertainty in the early phase of a municipal building refurbishment project-A case study in Finland

Uotila, U., Saari, A. & Junnonen, J. M., 1 Aug 2020, In : Buildings. 10, 8, 18 p., 137.

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

People's current mobility costs and willingness to pay for Mobility as a Service offerings

Liljamo, T., Liimatainen, H., Pöllänen, M. & Utriainen, R., 1 Jun 2020, In : Transportation Research Part A: Policy and Practice. 136, p. 99-119 21 p.

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

Hot-box measurements to investigate the internal convection of highly insulated loose-fill insulation roof structures

Kivioja, H. & Vinha, J., 1 Jun 2020, In : Energy and Buildings. 216, 10 p., 109934.

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

Heat protective properties of enclosure structure from thin-wall profiles with foamed concrete

Rybakov, V. A., Ananeva, I. A., Pichugin, E. D. & Garifullin, M., 1 Mar 2020, In : Magazine of Civil Engineering. 94, 2, p. 11-20 10 p.

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

Utilizing mixed-mineralogy ferroan magnesite tailings as the source of magnesium oxide in magnesium potassium phosphate cement

Ismailov, A., Merilaita, N., Solismaa, S., Karhu, M. & Levänen, E., 20 Jan 2020, In : Construction and building materials. 231, 117098.

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

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

May Tzuc, O., Rodríguez Gamboa, O., Aguilar Rosel, R., Che Poot, M., Edelman, H., Jiménez Torres, M. & Bassam, A., 2020, In : Journal of Building Engineering. 33, 101625.

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

Impacts of multiple refurbishment strategies on hygrothermal behaviour of basement walls

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

Recycling lithium mine tailings in the production of low temperature (700–900°C) ceramics: Effect of ladle slag and sodium compounds on the processing and final properties

Lemougna, P. N., Yliniemi, J., Ismailov, A., Levänen, E., Tanskanen, P., Kinnunen, P., Roning, J. & Illikainen, M., 10 Oct 2019, In : Construction and building materials. 221, p. 332-344 13 p.

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

Variation of CPTu-based transformation models for undrained shear strength of Finnish clays

Knuuti, M. & Lämsävaara, T., 2 Oct 2019, In : Georisk. 13, 4, p. 262-270 9 p.

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

Behaviour of riveted stringer-to-floorbeam connections in cyclic load tests to failure

Tulonen, J., Siitonen, T. & Laaksonen, A., 1 Sep 2019, In : Journal of Constructional Steel Research. 160, p. 101-109 9 p.

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

Parametric study on temperature distribution of square hollow section joints

Bączkiewicz, J., Pajunen, S., Malaska, M. & Heinisuo, M., 1 Sep 2019, In : Journal of Constructional Steel Research. 160, p. 490-498 9 p.

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

Assessing population vulnerability towards summer energy poverty: Case studies of Madrid and London

Sanchez-Guevara, C., Núñez Peiró, M., Taylor, J., Mavrogianni, A. & Neila González, J., 1 May 2019, In : Energy and Buildings. 190, p. 132-143 12 p.

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

Initial axial stiffness of welded RHS T joints

Garifullin, M., Bronzova, M., Pajunen, S., Mela, K. & Heinisuo, M., 1 Feb 2019, In : Journal of Constructional Steel Research. 153, p. 459-472 14 p.

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

A life cycle assessment of two residential buildings using two different LCA database-software combinations: Recognizing uniformities and inconsistencies

Emami, N., Heinonen, J., Marteinsson, B., Säynäjoki, A., Junnonen, J. M., Laine, J. & Junnila, S., 14 Jan 2019, In : Buildings. 9, 1, 20 p., 20.

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

Evaluating retrofit options in a historical city center: Relevance of bio-based insulation and the need to consider complex urban form in decision-making

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

Remote diagnostics application software for remote handling equipment

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

Modelling the stressed skin effect by using shell elements with meta-material model

Pajunen, S., Hautala, J. & Heinisuo, M., 2019, In : Magazine of Civil Engineering. 86, 2, p. 20-29 10 p.

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

Behavior of capacitive humidity sensors in monitoring the drying of concrete walls

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

Calculation method to determine capillary properties of building materials with automatic free water intake test

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

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

Moment-rotation behavior of welded tubular high strength steel T joint

Havula, J., Garifullin, M., Heinisuo, M., Mela, K. & Pajunen, S., 1 Oct 2018, In : Engineering Structures. 172, p. 523-537 15 p.

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

Condensation at the exterior surface of windows

Laukkarinen, A., Kero, P. & Vinha, J., 1 Sep 2018, In : Journal of Building Engineering. 19, p. 592-601 10 p.

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

Radon, fungal spores and MVOCs reduction in crawl space house: A case study and crawl space development by hygrothermal modelling

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Investigating the kinetics and biofuel properties of *Alstonia congensis* and *Ceiba pentandra* via torrefaction

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Techno-economic evaluation of integrating torrefaction with anaerobic digestion

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

Cold-formed RHS T joints with initial geometrical imperfections

Garifullin, M., Bronzova, M. K., Heinisuo, M., Mela, K. & Pajunen, S., 2018, In : *Magazine of Civil Engineering*. 80, 4, p. 81-94 14 p.

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Core Project Team As a Management Entity for Construction Projects

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Initial in-plane rotational stiffness of welded RHS T joints with axial force in main member

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

The effect of steel grade on weight and cost of warren-type welded tubular trusses

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Relationships among Civil Engineering Students' Approaches to Learning, Perceptions of the Teaching-Learning Environment, and Study Success

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

A generic method to optimize a redundant serial robotic manipulator's structure

Kivelä, T., Mattila, J. & Puura, J., 1 Sep 2017, In : *Automation in Construction*. 81, p. 172-179 8 p.

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

Carbon dioxide permeability of building materials and their impact on bedroom ventilation need

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

The effect of matrix type on ageing of thick vinyl ester glass-fibre-reinforced laminates

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

Effect of energy measures on the values of energy efficiency indicators in Finnish daycare and school buildings

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Overheating in English dwellings: comparing modelled and monitored large-scale datasets

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The corrosion rate in reinforced concrete facades exposed to outdoor environment

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Multicriteria selection in concept design of a divertor remote maintenance port in the EU DEMO reactor using an AHP participative approach

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

Energy saving and indoor climate effects of an added glazed facade to a brick wall building: Case study

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

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Mapping indoor overheating and air pollution risk modification across Great Britain: A modelling study

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Pre-use phase LCA of a multi-story residential building: Can greenhouse gas emissions be used as a more general environmental performance indicator?

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

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

Surrogate modeling for initial rotational stiffness of welded tubular joints

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

Improving the thermal performance of concrete-sandwich envelopes in relation to the moisture behaviour of building structures in boreal conditions

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Airtightness of residential buildings in Finland

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Assessing uncertainty in housing stock infiltration rates and associated heat loss: English and UK case studies

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

Diverter remote handling for DEMO: Concept design and preliminary FMECA studies

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

Role and nature of systemic innovations in construction and real estate sector

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Debonding and impact damage in stainless steel fibre metal laminates prior to metal fracture

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Stretching risk management standards: Multi-organizational perspectives

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The impact of occupancy patterns, occupant-controlled ventilation and shading on indoor overheating risk in domestic environments

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The relative importance of input weather data for indoor overheating risk assessment in dwellings

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

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

Passive wireless antenna sensor for strain and crack sensing - Electromagnetic modeling, simulation, and testing

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

Implementation of a direct procedure for critical point computations using preconditioned iterative solvers

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Cost optimal and nearly zero (nZEB) energy performance calculations for residential buildings with REHVA definition for nZEB national implementation

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Briefing: Initial findings from the urba project

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Societal impact as Cost-Benefit Analysis: Comparative analysis of two research infrastructures

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

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Research output: Contribution to journal > Comment/debate > Scientific

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

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

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

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

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

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

Uudessa COMBI-hankkeessa tutkitaan energiatehokkaan palvelurakentamisen haasteita ja ratkaisuja

Vinha, J., Hedman, M., Sirén, K., Harsia, P., Pentti, M., Teriö, O., Heljo, J., Laukkarinen, A., Annila, P., Kaasalainen, H., Jokisalo, J. & Pihlajamaa, P., 20 Oct 2015, *Rakennusfysiikka 2015. Uusimmat tutkimustulokset ja hyvät käytännön ratkaisut. 20.-22.10.2015, Tampere..* Vinha, J. & Ruuska, T. (eds.). Tampereen teknillinen yliopisto, rakennustekniikan laitos, rakennetekniikka, p. 487-496 10 p. (Rakennustekniikan laitos. Rakennetekniikka. Seminaarijulkaisu; no. 4).

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

Koko Julkisivua peittävän lasijulkisivun vaikutus Etelä-Ruotsissa sijaitsevan rakennuksen energiatehokkuuteen

Translated title of the contribution: : The impact of the added façade glazing on the building energy consumption in the southern Sweden

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

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

Kipsilevytuulensuojallisten puurunkoisten ulkoseinärakenteiden rakennusfysikaalinen toiminta

Jokela, T., Laukkarinen, A. & Vinha, J., 2019, *Rakennusfysiikka 2019: Uusimmat tutkimustulokset ja hyvät käytännön ratkaisut. 28.-30.10.2019, Tampere*. Vinha, J. & Raunima, T. (eds.). Tampere: Tampereen yliopisto, Rakennustekniikka, Vol. Seminaarijulkaisu 6. p. 61-66

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

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

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

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

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

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

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

Kapasitiivisten kosteusantureiden käyttäytyminen betoniseinien ja kipsivalulattioiden kuivumisen seurannassa

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

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

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Research output: Book/Report › Commissioned report › Professional

WIN-WINTER - Tie- ja katuverkon talvihoidon tutkimusohjelma. Esiselvitys: Raportti tuloksista

Karhula, K., Pöllänen, M., Mäntynen, J., Rauhamäki, H., Leppäniemi, M. & Luukkonen, T., 2015, Tampereen teknillinen yliopisto. Liikenteen tutkimuskeskus Verne. 15 p.

Research output: Book/Report › Commissioned report › Professional

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Karhula, K., Pöllänen, M., Mäntynen, J., Rauhamäki, H., Leppäniemi, M. & Luukkonen, T., 2015, Tampere University of Technology. 15 p.

Research output: Book/Report › Commissioned report › Professional

ÄKK Loppuraportti: rakennusten ääniolosuhteiden käyttäjälähtöinen kehittäminen

Hongisto, V. & Kylliäinen, M., 2015, Helsinki: Finnish Institute of Occupational Health. 40 p.

Research output: Book/Report › Commissioned report › Professional

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Mäntynen, J., Pöllänen, M., Eskelinen, H., Lehtola, I., Perrels, A. & Johanna, K., 1 Dec 2002, Helsinki: Liikenne- ja viestintäministeriö. 134 p. (Liikenne- ja viestintäministeriön julkaisuja; no. 48/2002)

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Research output: Book/Report › Book › Professional

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Research output: Book/Report › Book › Professional

Liikennetekniikan perusteet: Opetusmoniste

Mäntynen, J., Kallberg, H., Kalenoja, H., Rauhamäki, H., Pöllänen, M. M., Luukkonen, T. & Karhula, K., 2012, Tampere: Tampereen teknillinen yliopisto. Liikenteen tutkimuskeskus Verne. 216 p.

Research output: Book/Report › Book › Professional

Tuulettuvien yläpohjien lämpö- ja kosteustekninen toiminta nykyisessä ja tulevaisuuden ilmastossa

Laukkarinen, A., Oct 2015, Tampereen teknillinen yliopisto, rakennustekniikan laitos, rakennetekniikka. 107 p.

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

The effect of climate change on freeze-thaw durability of concrete structures in Finland

Pakkala, T., Lemberg, A-M. & Lahdensivu, J., Jun 2016, p. 53. 1 p.

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