

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

Alanen, J., Ruiz Morales, E., Muhammad, A., Saarinen, H. & Minkkinen, J., 2019, In : Fusion Engineering and Design.

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

Tuominen, E., Vinha, J. & Raunima, T., 2019, In : MATEC Web of Conferences. 282, 6 p., 02053.

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

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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

Keskikuru, T., Salo, J., Huttunen, P., Kokotti, H., Hyttinen, M., Halonen, R. & Vinha, J., 15 Jun 2018, In : Building and Environment. 138, p. 1-10 10 p.

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

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

Oluoti, K., Doddapaneni, T. R. K. C. & Richards, T., 1 May 2018, In : *Energy*. 150, p. 134-141 8 p.

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An approach to combining related notifications in large-scale building management systems with a rehabilitation facility case study

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

Utilizing the innovation potential of suppliers in construction projects

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Techno-economic evaluation of integrating torrefaction with anaerobic digestion

Doddapaneni, T. R. K. C., Praveenkumar, R., Tolvanen, H., Rintala, J. & Konttinen, J., 2018, In : *Applied Energy*. 213, p. 272-284 13 p.

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

Output power variation of different PV array configurations during irradiance transitions caused by moving clouds

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

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

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

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

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

Effects of strain rate and confining pressure on the compressive behavior of Kuru granite

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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

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

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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

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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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Understanding fundamental and practical ingredients of construction project data management

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

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Experimental study on the behavior of wear resistant steels under high velocity single particle impacts

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Evaluation of thermo-mechanical behaviour of composite energy piles during heating/cooling operations

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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

Mavrogianni, A., Davies, M., Taylor, J., Chalabi, Z., Biddulph, P., Oikonomou, E., Das, P. & Jones, B., 1 Jan 2014, In : Building and Environment. 78, p. 183-198 16 p.

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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

Using probabilistic sampling-based sensitivity analyses for indoor air quality modelling

Das, P., Shrubsole, C., Jones, B., Hamilton, I., Chalabi, Z., Davies, M., Mavrogianni, A. & Taylor, J., 1 Jan 2014, In : Building and Environment. 78, p. 171-182 12 p.

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

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

Yi, X., Cho, C., Cooper, J., Wang, Y., Tentzeris, M. M. & Leon, R. T., Aug 2013, In : Smart Materials and Structures. 22, 8, 085009.

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

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

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

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Nano-structured optical fibers made of glass-ceramics, and phase separated and metallic particle-containing glasses

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

Two models for hydraulic cylinders in flexible multibody simulations

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

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

Second-order analysis of prestressed concrete columns

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

Alkali-silica reaction in finnish swimming pools

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

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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](#)