

### **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**

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

### **Impacts of multiple refurbishment strategies on hygrothermal behaviour of basement walls**

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### **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. & Länsivaara, 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.

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### **Parametric study on temperature distribution of square hollow section joints**

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### **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.

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#### **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.

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#### **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**

Claude, S., Ginestet, S., Bonhomme, M., Escadeillas, G., Taylor, J., Marincioni, V., Korolija, I. & Altamirano, H., 1 Jan 2019, In : Energy and Buildings. 182, p. 196-204 9 p.

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#### **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**

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

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

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#### **Comparison between calculated and billed building energy consumption values of schools and daycare centers**

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#### **Thermal and moisture properties of calcium silicate insulation boards**

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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**

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#### **Condensation at the exterior surface of windows**

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

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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**

Evchina, Y. & Martinez Lastra, J. L., 31 Mar 2018, In : *Automation in Construction*. 87, p. 106-116 11 p.

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**Characterization of elastic constants of anisotropic composites in compression using digital image correlation**

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**Utilizing the innovation potential of suppliers in construction projects**

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**Techno-economic evaluation of integrating torrefaction with anaerobic digestion**

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**Cold-formed RHS T joints with initial geometrical imperfections**

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**Core Project Team As a Management Entity for Construction Projects**

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**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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**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.

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

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

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

Sekki, T., Airaksinen, M. & Saari, A., 15 Mar 2017, In : Energy and Buildings. 139, p. 124-132 9 p.

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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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**Designers' performance evaluation in construction projects**

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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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**Instrumentation and fe analysis of a large-span culvert built under a railway, in Finland**

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**Consideration of energy consumption, energy costs, and space occupancy in Finnish daycare centres and school buildings**

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**Stress relaxation in tempered glass caused by heat soak testing**

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

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

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#### **Energy saving in working hydraulics of long booms in heavy working vehicles**

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

Taylor, J., Davies, M., Mavrogianni, A., Shrubsole, C., Hamilton, I., Das, P., Jones, B., Oikonomou, E. & Biddulph, P., 1 Apr 2016, In : Building and Environment. 99, p. 1-12 12 p.

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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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#### **Effects of added glazing on Balcony indoor temperatures: Field measurements**

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#### **Surrogate modeling for initial rotational stiffness of welded tubular joints**

Garifullin, M. R., Barabash, A. V., Naumova, E. A., Zhuvak, O. V., Jokinen, T. & Heinisuo, M., 2016, In : Magazine of Civil Engineering. 63, 3, p. 53-76 24 p.

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#### **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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#### **Impact of building usage and occupancy on energy consumption in Finnish daycare and school buildings**

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#### **Analysis of thermo-active pile structures and their performance under groundwater flow conditions**

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

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#### **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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#### **Measured energy consumption of educational buildings in a Finnish city**

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#### **The assessment of constructability: BIM cases**

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

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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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#### **Commissioning for nearly zero-energy building projects**

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

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

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

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**Financial viability of energy-efficiency measures in a new detached house design in Finland**

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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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**Precision refurbishment of buildings: A façade refurbishment case study**

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**Strategy formation in construction firms**

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

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**Urban social housing resilience to excess summer heat**

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### **Two models for hydraulic cylinders in flexible multibody simulations**

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### **Practical experiences from several moisture performance assessments**

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

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### **Second-order analysis of prestressed concrete columns**

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### **Alkali-silica reaction in finnish swimming pools**

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