

Wireless crack sensing using an RFID-based folded patch antenna

Yi, X., Wang, Y., Leon, R. T., Cooper, J. & Tentzeris, M. M., 2012, *Bridge Maintenance, Safety, Management, Resilience and Sustainability - Proceedings of the Sixth International Conference on Bridge Maintenance, Safety and Management*. p. 824-830 7 p.

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

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

WIN-WINTER - Nordic winter road maintenance research program. Preliminary study: Project report

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

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

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

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

Validation of the method to evaluate the corrosion propagation stage by hygrothermal simulation

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

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., Annala, 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

Utilizing the innovation potential of suppliers in construction projects

Sariola, R., 2018, In : *Construction Innovation*. 18, 2

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

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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

Urban social housing resilience to excess summer heat

Mavrogianni, A., Taylor, J., Davies, M., Thoua, C. & Kolm-Murray, J., 4 May 2015, In : *Building Research and Information*. 43, 3, p. 316-333 18 p.

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

Understanding fundamental and practical ingredients of construction project data management

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

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

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Research output: Contribution to journal > 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

Tuulettuvien yläpohjien lämpö- ja kosteustekninen toiminta nykyisessä ja tulevaisuuden ilmastossa

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

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Research output: Book/Report > Book > Professional

The target reliability of the eurocodes

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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

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

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

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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

The effect of climate change on the amount of wind driven rain on concrete facades

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

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

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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

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

Stress relaxation in tempered glass caused by heat soak testing

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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

Reply to the discussion by koutsoftas on "evaluation of sample quality from different sampling methods in finnish soft sensitive clays"¹

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

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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

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

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

Raudoitteiden korroosionopeuden määrittäminen betonijulkisivussa korkean aikaresoluution säädätin avulla

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

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Rakennuksen ulkovaipan yli vaikuttavien paine-erojen määrittäminen rakennusfysikaalisia laskentatarkasteluja varten

Moisio, 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,

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

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

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Puurunkoisten ulkoseinien liitosten lämpö- ja kosteustekninen toiminta

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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 › Scientific

Puukerrostalorakentamisen kosteudenhallinta

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Puukerrostalon työmaavaiheen lämpö- ja kosteusolosuhteiden mittaukset

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Project feedback as a tool for learning

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

Precision refurbishment of buildings: A façade refurbishment case study

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

Practical experiences from several moisture performance assessments

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Performance of Variable Partial Factor approach in a slope design

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

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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

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

Passive frequency doubling antenna sensor for wireless strain sensing

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

Parametric study on temperature distribution of square hollow section joints

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

Paine-erot Pirkanmaan ja Helsingin julkisissa palvelurakennuksissa

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

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

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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

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

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

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.

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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

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

Menetelmä parvekelasien ääneneristävyyden mitoittamiseksi liikennemelualueilla

Kovalainen, V. & Kylliäinen, M., 22 Oct 2015, *Rakennusfysiikka 2015*. Tampereen teknillinen yliopisto, rakennustekniikan laitos, rakennetekniikka, p. 617-622 6 p.

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

Measured energy consumption of educational buildings in a Finnish city

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

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.

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

Maanvastaisten seinien lämpö- ja kosteustekninen toiminta

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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

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