

### **Acoustics of vanished 19th century concert halls in Helsinki**

Niemi, H., Kylliäinen, M., Jäppinen, J. & Lindqvist, M., Oct 2015, *9th International conference on Auditorium Acoustics 2015*. Institute of Acoustics, Vol. 37. p. 182-189 8 p.

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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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### **Airtightness of residential buildings in Finland**

Vinha, J., Manelius, E., Korpi, M., Salminen, K., Kurnitski, J., Kiviste, M. & Laukkarinen, A., 1 Nov 2015, In : *Building and Environment*. 93, P2, p. 128-140 13 p.

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### **ÄKK-hankkeen suositukset tulevaisuuden ääneneristysmääräyksiä koskien**

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### **ÄKK Loppuraportti: rakennusten äänioolosuhteiden käyttäjälähtöinen kehittäminen**

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

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

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### **Auralization of vanished 19th century concert halls in Helsinki**

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

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Krokkfors, K., Ilmonen, M., Kangasoja, J., Lehtonen, H., Mälkki, M., Mäntysalo, R., Norvasuo, M., Nupponen, T. & Puustinen, S., Mar 2011, In : *PROCEEDINGS OF THE ICE: URBAN DESIGN AND PLANNING*. 164, 1, p. 15-17 3 p.

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

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

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

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

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

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

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**Eriste- ja levyrappaus 2016, by 57**

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

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#### **Ilmakehän pitkäaaltainen säteily rakennusfysiikallisissa laskentatarkasteluissa**

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#### **Initial axial stiffness of welded RHS T joints**

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Asp, O. & Laaksonen, A., 3 Nov 2016, In : Structural Engineering International: Journal of the International Association for Bridge and Structural Engineering. 26, 4, p. 357-364 8 p.

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Heikkilä, R., Malaska, M., Törmänen, P. & Keyack, C., 2013, *ISARC 2013 - 30th International Symposium on Automation and Robotics in Construction and Mining, Held in Conjunction with the 23rd World Mining Congress*. p. 1171-1176 6 p.

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#### **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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#### **Julkisivujen ja parvekkeiden talvikorjaus 2018**

Pakkala, T., Lahdensivu, J., Köliö, A. & Annala, P., 2018, Vaasa: Suomen Betoniyhdistys r.y. (BY Tekniset ohjeet ; no. 70)

Research output: Book/Report › Book › Professional

#### **Julkisivujen ja parvekkeiden talvikorjausohje**

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#### **Kapasitiivisten kosteusantureiden käyttäytyminen betoniseiniä ja kipsivalulattioiden kuivumisen seurannassa**

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

#### **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

#### **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

Hilliaho, K., Nordquist, B. & Wallentén, P., 20 Oct 2015, *Rakennusfysiikka 2015. Uusimmat tutkimustulokset ja hyvät käytännön ratkaisut. 20.-22.10.2015, Tampere*. Vinha, J. & Ruuska, T. (eds.). Tampere: Tampereen teknillinen yliopisto, rakennustekniikan laitos, rakennetekniikka, p. 509-516 8 p. (Rakennustekniikan laitos. Rakennetekniikka. Seminaarijulkaisu 4; no. 4).

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

#### **Kosteusvaurioiden vakavuus kuntien rakennuksissa**

Annala, P., Lahdensivu, J., Suonketo, J., Pentti, M., Laukkarinen, A. & Vinha, J., 24 Oct 2017, *Rakennusfysiikka 2017. Uusimmat tutkimustulokset ja hyvät käytännön ratkaisut: 24.-26.10.2017, Tampere*. Vinha, J. & Kivioja, H. (eds.). Tampere: Tampereen teknillinen yliopisto, Rakennustekniikka, Rakennusfysiikka, Vol. 1. p. 135-140 6 p. (Tampereen teknillinen yliopisto. Rakennustekniikka. Rakennusfysiikka.).

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

#### **Koulujen ja päiväkotien sisäilman lämpötilan, suhteellisen kosteuden ja hiilidioksidipitoisuuden mittaukset COMBI-hankkeessa**

Laukkarinen, A., Kauppinen, A., Tuominen, E., Raunima, T. & 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. 133-138

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

#### **Lähtökohtia tie- ja rataverkon peruspalvelutason määrittämiselle**

Translated title of the contribution: : Basis for defining the basic service level of road and rail network

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

Research output: Book/Report › Commissioned report › Professional

#### **Lasitetun parvekkeen lämpötilan ja lämpöhäviöiden laskenta**

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#### **Liikennetekniikan perusteet: Opetusmoniste**

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

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#### **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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#### **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

### **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

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

Ilomets, S., Kalamees, T. & Lahdensivu, J., 2016, *CESB 2016 - Central Europe Towards Sustainable Building 2016: Innovations for Sustainable Future*. Czech Technical University in Prague, p. 1113-1120 8 p.

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

**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

**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

**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