

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

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.

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

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

Gashti, E. H. N., Malaska, M. & Kujala, K., 11 Aug 2015, In : Energy and Buildings. 105, p. 1-8 8 p.

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

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.

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

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

Jones, B., Das, P., Chalabi, Z., Davies, M., Hamilton, I., Lowe, R., Mavrogianni, A., Robinson, D. & Taylor, J., 1 Oct 2015, In : Building and Environment. 92, p. 644-656 13 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

Briefing: Initial findings from the urba project

Krokfors, 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.

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

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

Niemelä, T., Vinha, J., Lindberg, R., Ruuska, T. & Laukkarinen, A., 1 Jul 2017, In : Journal of Building Engineering. 12, p. 99-108 10 p.

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

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

Orell, O., Vuorinen, J., Jokinen, J., Kettunen, H., Hytönen, P., Turunen, J. & Kanerva, M., 2018, In : Composite Structures. 185, p. 176-185 10 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.

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

Commissioning for nearly zero-energy building projects

Kantola, M. & Saari, A., 1 Jul 2014, In : Construction Innovation: Information, Process, Management. 14, 3, p. 370-382 13 p.

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

Computational design concept analysis: A Nordic comparison of four apartment buildings

Saari, A., 2008, In : STRUCTURAL SURVEY. 26, 1, p. 29-37 9 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.

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

Sekki, T., Andelin, M., Airaksinen, M. & Saari, A., 1 Oct 2016, In : Energy and Buildings. 129, p. 199-206 8 p.

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

Core Project Team As a Management Entity for Construction Projects

Keinänen, M. & Kähkönen, K., 2018, In : In_bo: Ricerche e progetti per il territorio, la città e l'architettura. Construction Management. 9, 13, p. 208-217 10 p.

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

Kurnitski, J., Saari, A., Kalamees, T., Vuolle, M., Niemelä, J. & Tark, T., Nov 2011, In : Energy and Buildings. 43, 11, p. 3279-3288 10 p.

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

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

Pärnänen, T., Kanerva, M., Sarlin, E. & Saarela, O., 2015, In : Composite Structures. 119, p. 777-786 10 p.

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

Designers' performance evaluation in construction projects

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

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

Carfora, D., Di Gironimo, G., Järvenpää, J., Huhtala, K., Määttä, T. & Siuko, M., 9 Jul 2015, In : Fusion Engineering and Design. 98-99, p. 1437-1441 5 p.

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

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

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

Effects of added glazing on Balcony indoor temperatures: Field measurements

Hilliaho, K., Köliö, A., Pakkala, T., Lahdensivu, J. & Vinha, J., 2016, In : Energy and Buildings. 128, p. 458-472 15 p.

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

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

Hokka, M., Black, J., Tkalich, D., Fourmeau, M., Kane, A., Hoang, N. H., Li, C. C., Chen, W. W. & Kuokkala, V-T., 1 May 2016, In : International Journal of Impact Engineering. 91, p. 183-193 11 p.

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

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

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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.

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

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

Hassani Nezhad Gashti, E., Malaska, M. & Kujala, K., 15 Sep 2014, In : Engineering Structures. 75, p. 363-373 11 p.

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

Lindroos, M., Apostol, M., Kuokkala, V. T., Laukkanen, A., Valtonen, K., Holmberg, K. & Oja, O., 2015, In : International Journal of Impact Engineering. 78, p. 114-127 14 p.

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

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

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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

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

Sekki, T., Airaksinen, M. & Saari, A., 18 Aug 2015, In : Energy and Buildings. 105, p. 247-257 11 p.

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

Impacts of multiple refurbishment strategies on hygrothermal behaviour of basement walls

Fedorik, F., Heiskanen, R., Laukkanen, A. & Vinha, J., Nov 2019, In : Journal of Building Engineering. 26, 9 p., 100902.

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

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

Kouhia, R., Tüma, M., Mäkinen, J., Fedoroff, A. & Marjamäki, H., Oct 2012, In : Computers & Structures. 108-109, p. 110-117 8 p.

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

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

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

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

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

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

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

Measured energy consumption of educational buildings in a Finnish city

Sekki, T., Airaksinen, M. & Saari, A., 1 Jan 2015, In : Energy and Buildings. 87, p. 105-115 11 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

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

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

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Research output: Contribution to journal > 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

Carfora, D., Gironimo, G. D., Esposito, G., Huhtala, K., Määttä, T., Mäkinen, H., Miccichè, G. & Mozzillo, R., 15 Nov 2016, In : Fusion Engineering and Design. 112, p. 324-331 8 p.
Research output: Contribution to journal > Article > Scientific > peer-review

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

Lappalainen, K. & Valkealahti, S., 15 Mar 2017, In : Applied Energy. 190, p. 902-910 9 p.

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

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

Symonds, P., Taylor, J., Mavrogianni, A., Davies, M., Shrubsole, C., Hamilton, I. & Chalabi, Z., 17 Feb 2017, In : Building Research and Information. 45, 1-2, p. 195-208 14 p.

Research output: Contribution to journal › Article › 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

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

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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

Precision refurbishment of buildings: A façade refurbishment case study

Saari, A., 2008, In : STRUCTURAL SURVEY. 26, 2, p. 108-119 12 p.

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?

Heinonen, J., Säynäjoki, A., Junnonen, J. M., Pöyry, A. & Junnila, S., 1 Jan 2016, In : Building and Environment. 95, p. 116-125 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

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

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

Salmisto, A., Postareff, L. & Nokelainen, P., 1 Oct 2017, In : Journal of Professional Issues in Engineering Education and Practice. 143, 4, 04017010.

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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

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

Kähkönen, K., 7 Apr 2015, In : Construction Innovation: Information, Process, Management. 15, 2, p. 130-133 4 p.

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

Strategy formation in construction firms

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

Stress relaxation in tempered glass caused by heat soak testing

Schneider, J., Hilcken, J., Aronen, A., Karvinen, R., Olesen, J. F. & Nielsen, J., 1 Sep 2016, In : Engineering Structures. 122, p. 42-49 8 p.

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

Stretching risk management standards: Multi-organizational perspectives

Lehtiranta, L. & Junnonen, J. M., 1 Jan 2014, In : BUILT ENVIRONMENT PROJECT AND ASSET MANAGEMENT. 4, 2, p. 128-145 18 p.

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

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.

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

Techno-economic evaluation of integrating torrefaction with anaerobic digestion

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

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

The assessment of constructability: BIM cases

Tauriainen, M. K., Puttonen, J. A. & Saari, A. J., 1 Jan 2015, In : Journal of Information Technology in Construction. 20, p. 51-67 17 p.

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

The corrosion rate in reinforced concrete facades exposed to outdoor environment

Köliö, A., Pakkala, T. A., Hohti, H., Laukkarinen, A., Lahdensivu, J., Mattila, J. & Pentti, M., Feb 2017, In : Materials and Structures. 50, 23

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

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

Sarlin, E., Sironen, R., Pärnänen, T., Lindgren, M., Kanerva, M. & Vuorinen, J., 15 May 2017, In : Composite Structures. 168, p. 840-850

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

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

Tiainen, T., Mela, K., Jokinen, T. & Heinisuo, M., 1 Nov 2017, In : Proceedings of the Institution of Civil Engineers: Structures and Buildings. 170, 11, p. 855-873 19 p., 1600112.

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

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.

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

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

Taylor, J., Davies, M., Mavrogianni, A., Chalabi, Z., Biddulph, P., Oikonomou, E., Das, P. & Jones, B., 1 Jan 2014, In : Building and Environment. 76, p. 81-91 11 p.

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

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

Understanding fundamental and practical ingredients of construction project data management

Kähkönen, K. & Rannisto, J., 5 Jan 2015, In : Construction Innovation: Information, Process, Management. 15, 1, p. 7-23 17 p.

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

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

Utilizing the innovation potential of suppliers in construction projects

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

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

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

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Tuominen, E. & Vinha, J., 2019, In : MATEC Web of Conferences. 282, 6 p., 02037.

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

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

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

Thermal and moisture properties of calcium silicate insulation boards

Tuominen, E., Tuominen, O., Vainio, M., Ruuska, T. & Vinha, J., 2019, In : MATEC Web of Conferences. 282, 7 p., 02065.

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

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

Di Buò, B., Selänpää, J., Lämsivaara, T. T. & D'ignazio, M., 2020, In : Canadian Geotechnical Journal. 57, 8, p. 1261-1262 2 p.

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

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Malaska, M. & Heikkilä, R., 1 Nov 2016, In : Automation in Construction. 71, p. 1 1 p.

Research output: Contribution to journal › Editorial › Scientific

Practical experiences from several moisture performance assessments

Annala, P. J., Lahdensivu, J., Suonketo, J. & Pentti, M., 2016, *Recent developments in building diagnosis techniques*. Delgado, J. (ed.). Porto, Portugal: Springer Science+Business Media, Vol. 5. p. 1-20 20 p. (Building Pathology and Rehabilitation; vol. 5).

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

Two models for hydraulic cylinders in flexible multibody simulations

Ylinen, A., Mäkinen, J. & Kouhia, R., 2016, *Computational Methods for Solids and Fluids: Multiscale Analysis, Probability Aspects and Model Reduction*. Springer, p. 463-493 31 p. (Computational Methods in Applied Sciences; vol. 41).

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

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.

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

ÄKK-hankkeen suositukset tulevaisuuden ääneneristysmääräyksiä koskien

Hongisto, V., Kylliäinen, M. & Hyönä, J., 22 Oct 2015, *Rakennusfysiikka 2015*. Tampere: Tampereen teknillinen yliopisto, rakennustekniikan laitos, rakennetekniikka, p. 561-566 6 p.

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

Auralization 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. 470-477 8 p.

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Julkisivujen ja parvekkeiden talvikorjausohje

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

Veber, A., Lu, Z., Vermillac, M., Pigeonneau, F., Blanc, W. & Petit, L., 2019, In : *Fibers*. 7, 12, 29 p.

Research output: Contribution to journal › Review 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