

**Calcium signaling in astrocytes: modeling Fura-2AM measurements.** / Toivari, Eeva; Manninen, Tiina; Nahata, Amit K.; Jalonen, Tuula O.; Linne, Marja-Leena.

In: *Frontiers in Neuroscience*, 2010.

Research output: [Contribution to journal](#) › [Meeting Abstract](#) › [Scientific](#) › [peer-review](#)

**Beaconing in a highway scenario : Vulnerable vehicles problem.** / Tariq, Ali Bin.

Proceedings of the 11th Conference of Open Innovations Association FRUCT, FRUCT 2012. Vol. 2012-April IEEE, 2012. p. 169-175.

Research output: [Chapter in Book/Report/Conference proceeding](#) › [Conference contribution](#) › [Scientific](#) › [peer-review](#)

**Grammatical and Semantic Disambiguation of Requirements at Elicitation and Representation Stages.** / Christophe, Francois; Wang, Min; Coatanea, Eric; Zeng, Yong; Bernard, Alain.

Proceedings of the ASME International Design Engineering Technical Conferences and Computers and Information in Engineering, 2011, vol 9. AMER SOC MECHANICAL ENGINEERS, 2012. p. 17-31.

Research output: [Chapter in Book/Report/Conference proceeding](#) › [Conference contribution](#) › [Scientific](#) › [peer-review](#)

**International Workshop on MicroFactories (IWMF 2012) : 17th-20th June 2012 Tampere Hall Tampere, Finland.** / Tuokko, Reijo (Editor); Lanz, Minna (Editor); Luostarinen, Pasi (Editor).

Tampere University of Technology. Department of Production Engineering, 2012. 186 p.

Research output: [Book/Report](#) › [Commissioned report](#) › [Professional](#)

**Proceedings of VikingPLoP 2012 Conference.** / Eloranta, Veli-Pekka (Editor); Koskinen, Johannes (Editor); Leppänen, Marko (Editor).

Tampere University of Technology. Department of Software Systems, 2012. 142 p. (Tampere University of Technology. Department of Software Systems. Report; Vol. 22).

Research output: [Book/Report](#) › [Commissioned report](#) › [Professional](#)

**Emergency Voice/Stress - level Combined Recognition for Intelligent House Applications.** / Drossos, Konstantinos; Floros, Andreas; Agavanakis, Kyriakos; Tatlas, Nicolas-Alexander; Kanellopoulos, Nikolaos.

Audio Engineering Society Convention 132. AES Audio Engineering Society, 2012.

Research output: [Chapter in Book/Report/Conference proceeding](#) › [Conference contribution](#) › [Scientific](#)

**Smart microphone sensor system platform.** / Kokkinis, Elias; Drossos, Konstantinos; Tatlas, Nicolas-Alexander; Floros, Andreas; Tsilfidis, Alexandros; Agavanakis, Kyriakos.

Audio Engineering Society Convention 132. AES Audio Engineering Society, 2012.

Research output: [Chapter in Book/Report/Conference proceeding](#) › [Conference contribution](#) › [Scientific](#)

**High-efficiency yellow VECSEL with 20 W output power.** / Kantola, Emmi; Leinonen, Tomi; Ranta, Sanna; Tavast, Miki; Guina, Mircea.

Optics Days 2013, Helsinki, Finland: Oral presentation in Optics Days 2013, Helsinki, Finland. 2013.

Research output: [Chapter in Book/Report/Conference proceeding](#) › [Conference contribution](#) › [Scientific](#)

**Integration of evaluation and simulation methods for virtual prototypes.** / Christophe, François; Mokammel, Faisal; Coatanea, Eric; Bakhouya, Mohamed.

Proceedings of the 15th International Conference on Engineering and Product Design Education: Design Education - Growing Our Future, EPDE 2013. 2013. p. 623-628.

Research output: [Chapter in Book/Report/Conference proceeding](#) › [Conference contribution](#) › [Scientific](#) › [peer-review](#)

**Interplay between offering, provider and customer in product-service system design.** / Ritola, Tuomas; Coatanea, Eric.

Proceedings of the 19th International Conference on Engineering Design (ICED13), Design for Harmonies, Vol.4: Product, Service and Systems Design, Seoul, Korea, 19-22.08.2013. ed. / U Lindemann; S Venkataraman; YS Kim; SW Lee; O DeWeck; YS Hong. DESIGN SOC, 2013. (International Conference on Engineering Design).

Research output: [Chapter in Book/Report/Conference proceeding](#) › [Conference contribution](#) › [Scientific](#) › [peer-review](#)

**Model-Based Approach for Change Propagation Analysis in Requirements.** / Nonsiri, Sarayut; Coatanea, Eric; Bakhouya, Mohamed; Mokammel, Faisal.

2013 IEEE International Systems Conference (SysCon) . IEEE, 2013. p. 497-503 (Systems Conference (SysCon), 2013 IEEE International).

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

**Moduulirakentaminen : Teräskennoteknologian mahdollisuudet.** / Sorri, Jaakko (Editor).

Tampereen teknillinen yliopisto. Rakennustekniikan laitos, 2013. 114 p. (Tampereen teknillinen yliopisto. Rakennustekniikan laitos. Rakennustuotanto ja -talous. Raportti; Vol. 14).

Research output: Book/Report › Commissioned report › Professional

**Proceedings of VikingPLoP 2013 Conference.** / Eloranta, Veli-Pekka (Editor); Koskinen, Johannes; Leppänen, Marko Kristian.

Tampere University of Technology. Department of Pervasive Computing, 2013. 125 p. (Tampere University of Technology. Department of Pervasive Computing. Report; Vol. 2).

Research output: Book/Report › Commissioned report › Professional

**Theory driven design and real proto typing of biomass pyrolitic stove.** / Ogeya, Mbeo Calvince; Coatanéa, Eric; Medyna, Galina.

Proceedings of the International Conference on Engineering Design, ICED. Vol. 9 DS75-09 2013. p. 69-78.

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

**Theory driven design and real prototyping of biomass pyrolitic stove.** / Ogeya, Mbeo Calvince; Coatanea, Eric; Medyna, Galina.

Design for Harmonies, Vol.9: Design Methods and Tools. ed. / U Lindemann; Srinivasan; YS Kim; SW Lee; P Papalambros; W Chen. DESIGN SOC, 2013. p. 69-78 (International Conference on Engineering Design).

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

**Kids Out! Urban environments and physical activity among children and adolescents.** / Sarjala, Satu-Maaria .

2013 Active Living Research (ALR) Annual Conference in San Diego, CA. 2013.

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

**OSS-TMM : Guidelines for improving the testing process of open source software.** / Morasca, Sandro; Taibi, Davide; Tosi, Davide.

Open Source Software Dynamics, Processes, and Applications. IGI Global, 2013. p. 59-78.

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

**Impact analysis of graph-based requirements models using PageRank algorithm.** / Mokammel, F.; Coatanea, E.; Bakhouya, M.; Christophe, F.; Nonsiri, S.

2013 IEEE International Systems Conference (SysCon). IEEE, 2013. p. 731-736 (2013 IEEE International Systems Conference (SysCon)).

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

**Automated Tonal Balance Enhancement for Audio Mastering Applications.** / Mimilakis, Stylianos - Ioannis; Drossos, Konstantinos; Floros, Andreas; Katerelos, Dionisios.

Audio Engineering Society Convention 134. AES Audio Engineering Society, 2013.

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

**Investigating Auditory Human-Machine Interaction: Analysis and Classification of Sounds Commonly Used by Consumer Devices.** / Drossos, Konstantinos; Kotsakis, Rigas; Pappas, Panos; Kalliris, George; Floros, Andreas.

Audio Engineering Society Convention 134. AES Audio Engineering Society, 2013. 8812.

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

**EMCCD imaging of strongly ionizing radioactive materials for safety and security.** / Sand, Johan; Ihtantola, Sakari; Peräjärvi, Kari; Toivonen, Harri; Nicholl, Adrian; Hrncsek, Erich; Toivonen, Juha.

2013 Conference on Lasers and Electro-Optics - International Quantum Electronics Conference. Optical Society of America, 2013. p. JSII\_P\_1.

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

**Development of New Kinds of Plasmonics Materials Through Swift Heavy Ion Shaping Technique.** / Cardin, Julien; Dufour, Christian; KHOMENKOV, Vladimir; Fafin, Alexandre; Monnet, Isabelle; Rizza, Giancarlo; COULON, Pierre-Eugene; Slablab, Abdallah; Maily, Dominique; Ulysse, Christian; Lafosse, Xavier; Perruchas, Sandrine; Gacoin, Thierry.  
7th International Conference on Materials for Advanced Technologies (ICMAT 2013), Jun 2013, Suntec, Singapore. Singapore, 2013.

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

**Sound Events and Emotions: Investigating the Relation of Rhythmic Characteristics and Arousal.** / Drossos, Konstantinos; Kotsakis, Rigas; Kalliris, George; Floros, Andreas.

Information, Intelligence, Systems and Applications (IISA), 2013 Fourth International Conference on. IEEE, 2013. p. 1-6.

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

**Automated driving and the key megatrends of future.** / Pöllänen, Markus; Nykänen, Lasse .

ITS European Congress: 10th ITS EUROPEAN CONGRESS, Helsinki, Finland 16-19 June 2014. 2014. TP0067.

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

**Combining Product Innovation With Service Innovation to Increase Value Created With a System.** / Ritola, Tuomas; Coatanea, Eric.

Proceedings of the ASME international mechanical engineering congress and exposition, 2013, vol 12. AMER SOC MECHANICAL ENGINEERS, 2014.

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

**Contact analysis included in a 3D FEA of tube splices.** / Perttola, Henri; Ronni, Hilka; Heinisuo, Markku.

Eurosteel 2014 7th European conference on steel and composite structures. 2014.

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

**Crossing Boundaries for Learning – through Technology and Human Efforts.** / Niemi, Hannele; Multisilta, Jari; Löfström, Erika.

CICERO Learning Network, University of Helsinki, 2014.

Research output: Book/Report › Book › Scientific › peer-review

**Design: A Key Stage of Product Lifecycle.** / Bernard, Alain; Coatanea, Eric; Christophe, François; Laroche, Florent.

In: Procedia CIRP, Vol. 21, 2014, p. 3-9.

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

**Economical utilization of high strength steel : Welded slim floor box beams.** / Mela, Kristo; Heinisuo, Markku.

Eurosteel 2014 7th European conference on steel and composite structures. 2014.

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

**Electrostatic Threats in Hospital Environment.** / Viheriäkoski, Toni; Kokkonen, Mika; Tamminen, Pasi; Karja, Eira; Hillberg, Jukka; Smallwood, Jeremy.

2014 36TH Electrical overstress/electrostatic discharge symposium (EOS/ESD). IEEE COMPUTER SOC, 2014.

(Electrical Overstress Electrostatic Discharge Symposium).

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

**ESD Sensitivity of 01005 Chip Resistors and Capacitors.** / Tamminen, Pasi; Sydänheimo, Lauri; Ukkonen, Leena.

2014 36TH Electrical Overstress/Electrostatic Discharge Symposium (EOS/ESD). IEEE COMPUTER SOC, 2014.

(Electrical Overstress Electrostatic Discharge Symposium).

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

**Field Collapse Event ESD Test Method.** / Tamminen, Pasi; Viheriäkoski, Toni; Reinvuori, Tuomas; Sydänheimo, Lauri; Ukkonen, Leena.

2014 36TH Electrical overstress/electrostatic discharge symposium (EOS/ESD). IEEE COMPUTER SOC, 2014.

(Electrical Overstress Electrostatic Discharge Symposium).

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

**Kävelystä elinvoimaa.** / Rantala, Tuuli; Luukkonen, Terhi ; Karhula, Kaisa ; Vaismaa, Kalle ; Mäntynen, Jorma ; Metsäpuro, Pasi .  
Tampere : Tampereen teknillinen yliopisto. Liikenteen tutkimuskeskus Verne., 2014. 142 p.  
Research output: Book/Report > Commissioned report > Professional

**Knowledge Management Practices in Large Companies.** / Väyrynen, Hannele; Helander, Nina; Kukko, Marianne .  
In: The Macrotheme Review, Vol. 3, No. 9, 3(9), 2014, p. 56-72.  
Research output: Contribution to journal > Article > Scientific > peer-review

**Kohti kestäväää Skanssia.** / Laak, Mikko (Editor); Del Barrio Batista, Juan (Editor).  
Tampereen teknillinen yliopisto. Arkkitehtuurin laitos, 2014. 87 p.  
Research output: Book/Report > Commissioned report > Professional

**Lahdelma & Mahlamäki Architects: Works.** / Lahdelma, Ilmari.  
Rakennustieto, 2014. 152 p.  
Research output: Book/Report > Book > Professional

**Life Beyond the Binary Code : Select Prose and Poetry.** / Lepistö, Timo (Editor).  
Tampere University of Technology, Language Center, 2014. 79 p.  
Research output: Book/Report > Commissioned report > Professional

**Liite 6: Yleistä kaivannaisjätealueista ja patoturvallisuudesta.** / Leppänen, Minna ; Välisalo, Tero (Editor); Laasonen, Juha.  
Kaivosten stressitesti 2013. Ympäristöministeriö, 2014. (Ympäristöministeriön raportteja).  
Research output: Chapter in Book/Report/Conference proceeding > Chapter > Professional

**Modeling of Age-Dependent Failure Tendency from Incomplete Data.** / Hagmark, P.; Laitinen, J.  
Engineering Asset Management 2011: Proceedings of the Sixth World Congress on Engineering Asset Management. ed. / Jay Lee; Jun Ni; Jagnathan Sarangapani; Joseph Mathew. London : Springer-Verlag London Limited, 2014. p. 449-459 (Lecture Notes in Mechanical Engineering).  
Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific > peer-review

**On Design and Development of Super-FRS main tunnel Remote Handling System Concept.** / Amjad, Faraz; Weick, Helmut; Mattila, Jouni; Kozlova, Ekaterina; Schloer, Christian.  
2014 IEEE 17th International Conference on Intelligent Transportation Systems (ITSC), 8-11 Oct. 2014, Qingdao. IEEE, 2014. p. 188-194.  
Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific > peer-review

**Optimization of high strength steel tubular trusses.** / Tiainen, Teemu; Mela, Kristo; Jokinen, Timo; Heinisuo, Markku.  
Eurosteel 2014 7th European conference on steel and composite structures. 2014.  
Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific > peer-review

**Optimizing investment in ESD control.** / Smallwood, Jeremy; Tamminen, Pasi; Viheriäkoski, Toni.  
2014 Electrical Overstress/Electrostatic Discharge Symposium (EOS/ESD). IEEE COMPUTER SOC, 2014. (Electrical Overstress Electrostatic Discharge Symposium).  
Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific > peer-review

**Orimattilan Henna.** / Laak, Mikko (Editor).  
Tampereen teknillinen yliopisto. Arkkitehtuurin laitos, 2014. 89 p.  
Research output: Book/Report > Commissioned report > Professional

**Product Upgradability : Towards a Medical Analogy.** / Chapuis, Yannick; Demoly, Frédéric; Coatanéa, Eric; Gomes, Samuel.  
ADVANCES IN PRODUCTION MANAGEMENT SYSTEMS: INNOVATIVE AND KNOWLEDGE-BASED PRODUCTION MANAGEMENT IN A GLOBAL-LOCAL WORLD, APMS 2014, PT III. ed. / B Grabot; B Vallespir; S Gomes; A Bouras; D Kiritsis. Vol. 440 PART 3. ed. Springer-Verlag, Berlin, 2014. p. 148-155 (IFIP Advances in Information and Communication Technology; Vol. 440).

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

**Professional knowledge, skills and competencies of the new graduates and the engineering professionals - Comparison of the importance in working-life.** / Hyötynen, P.; Mursu, S.; Teini, J.-P.

SEFI Annual Conference 2014. Brussel : European Society for Engineering Education SEFI, 2014.

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

**Systemic Sustainability and Emerging Diversity of Shopping Concepts in Urban Multi-Agent Networks.** / Rantanen, Annuska; Iltanen, Sanna; Joutsiniemi, Anssi.

New Urban Configurations. ed. / Roberto Cavallo; Susanne Komossa; Nicola Marzot; Meta Berghauer Pont; Joran Kuijper. Delft University Press, 2014. p. 510-517.

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

**The behaviour of transverse bar reinforcement of slim floor beams in precast floors.** / Vinberg, Matti; Malaska, Mikko; Peltonen, Simo.

Eurosteel 2014 : 7th European Conference on Steel and Composite Structures, 10.-12.9.2014, Naples, Italy. ed. / Raffaele Landolfo; Federico Mazzolani. Belgium : ECCS - European Convention for Constructional Steelwork, 2014. 33-493.

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

**Towards a sustainable Skanssi.** / Laak, Mikko (Editor); Del Barrio Batista, Juan (Editor).

Tampere University of Technology, School of Architecture, 2014. 87 p.

Research output: Book/Report › Commissioned report › Professional

**Vaihdetta isommalle : Pyöräilyn potentiaalın hyödyntäminen.** / Metsäpuro, Pasi; Vaismaa, Kalle; Karhula, Kaisa ; Luukkonen, Terhi ; Mäntynen, Jorma ; Rantala, Tuuli.

Tampere : Tampereen teknillinen yliopisto. Liikenteen tutkimuskeskus Verne., 2014. 145 p.

Research output: Book/Report › Commissioned report › Professional

**Vibration analysis of the composite slim floor.** / Yrjölä, Jaakko ; Peltonen, Simo; Malaska, Mikko.

EUROSTEEL 2014 : 7th European Conference on Steel and Composite Structures, 10.-12.9.2014, Naples, Italy. ed. / Raffaele Landolfo; Federico Mazzolani. Belgium : ECCS - European Convention for Constructional Steelwork, 2014. 33-494.

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

**White Knights of the Smart City.** / Kymäläinen, Tiina; Sahar, Farrukh; Palviainen, Jarmo.

Workshop Proceedings of the 10th International Conference on Intelligent Environments. ed. / JC Augusto; T Zhang. IOS Press, 2014. p. 223-234 (Ambient Intelligence and Smart Environments; Vol. 18).

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

**Patterns for controlling chaos in a startup.** / Eloranta, Veli-Pekka.

VikingPLoP 2014 Proceedings of the 8th Nordic Conference on Pattern Languages of Programs. Vol. 2014-April Association for Computing Machinery, 2014. p. 1-8 (ACM International Conference Proceeding Series).

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

**Two patterns for minimizing human resources in a startup.** / Leppänen, Marko.

VikingPLoP 2014 Proceedings of the 8th Nordic Conference on Pattern Languages of Programs (VikingPLoP) . ACM, 2014. 4.

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

**A Socially-Intelligent Multi-Robot Service Team for In-Home Monitoring.** / Drossos, Konstantinos; Floros, Andreas; Potirakis, Stelios; Tatlas, Nicolas-Alexander; Tuna, Gurkan.

Information, Intelligence, Systems and Applications, IISA 2014, The 5th International Conference on. IEEE, 2014. p. 159-164.

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

**BEADS: A dataset of Binaural Emotionally Annotated Digital Sounds.** / Drossos, K.; Floros, A.; Giannakouloupolous, Andreas.

Information, Intelligence, Systems and Applications, IISA 2014, The 5th International Conference on. IEEE, 2014. p. 158-163.

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

**Development of chip-surface stimulus electrode array for fully-implantable subretinal prosthesis chip.** / Sasaki, Yuichiro; Suzuki, Takuji; Iwagami, Takuma; Tani, Takaharu; Naganuma, Hideki; Kino, Hisashi; Hyttinen, Jari; Kellomäki, Minna; Tanaka, Tetsu.

In: Transactions of Japanese Society for Medical and Biological Engineering, Vol. 52, 17.08.2014, p. O-253-O-254.

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

**Development of Si neural probe module with adjustable gain amplifier for neuronal signal recording.** / Tani, Takaharu; Naganuma, Hideki; Harashima, Takuya; Iwagami, Takuma; Kino, Hisashi; Kiyoyama, Koji; Kellomäki, Minna; Hyttinen, Jari; Tanaka, Tetsu.

In: Transactions of Japanese Society for Medical and Biological Engineering, Vol. 52, 17.08.2014, p. O-377-O-378.

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

**The Parallel Diode and Trap Behaviour of Ternary Polymer Solar Cells.** / Kraft, Thomas; Cristoferi, Claudio; Trigaud, Thierry; Nunzi, Jean-Michel; Ratier, Bernard.

EU PVSEC Proceedings. Vol. EU PVSEC 2014 EU PVSEC, 2014. 3BV.5.23.

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

**How mono-valent cations bend peptide turns and a first-principles database of amino acids and dipeptides.** / Baldauf, Carsten; Ropo, Matti; Blum, Volker; Scheffler, Matthias.

International Conference of Computational Methods in Sciences and Engineering 2014 (ICCMSE 2014). ed. / Theodore E. Simos; Zacharoula Kalogiratou; Theodore Monovasilis. Vol. 1618 American Institute of Physics Inc., 2014. p. 119-120 (AIP Conference Proceedings; Vol. 1618).

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

**Massive Open Online Research : An approach to deal with wicked problems.** / Machado, Marcelo ; Verghese, George; Peltola, Tero.

PICMET 14 Conference, Portland International Center for Management of Engineering and Technology: Infrastructure and Service Integration. Portland : The Institute of Electrical and Electronics Engineers, Inc., 2014. p. 236-242 6921178.

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

**Consumers' Views on Eco-Friendliness as a Dimension of a High-Tech Brand.** / Saari, Ulla ; Mäkinen, Saku ; Alinikula, Petteri.

Going Green - CARE INNOVATION 2014 . SAT Austrian Society for Systems Engineering and Automation, 2014. p. 1-8 067.

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

**Arbitrary Land Use Policy in Jordan between Legal Brand and Property Control.** / Tewfik, Magdy ; Amr, Alia'a.

In: European International Journal of Science and Technology, Vol. 3, No. 9, 12.2014, p. 86-93.

Research output: Contribution to journal > Article > General public

**1180nm VECSEL with 50 W output power.** / Kantola, Emmi; Leinonen, Tomi; Ranta, Sanna; Tavast, Miki; Penttinen, Jussi-Pekka; Guina, Mircea.

Proceedings of SPIE - The International Society for Optical Engineering. Vol. 9349 SPIE, 2015. 93490U.

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

**50 W VECSEL emitting at 1180 nm.** / Kantola, E.; Leinonen, T.; Penttinen, J.-P.; Tavast, M.; Ranta, S.; Guina, M.

2015 Conference on Lasers and Electro-Optics Europe - European Quantum Electronics Conference, 21.-25.6. Munich, Germany: CB\_3\_1. OSA, 2015.

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

**8th Nordic Conference on Construction Economics and Organization.** / Kähkönen, Kalle (Editor).

In: *Procedia Economics and Finance*, Vol. 21, 2015.

Research output: Contribution to journal › Special issue › Scientific › peer-review

**A Capacity Bound for mmWave-based Channel Access in Ultra-Dense Wearable Deployments.** / Galinina, Olga; Turlikov, Andrey; Pyattaev, Alexander; Johnsson, Kerstin; Andreev, Sergey; Koucheryavy, Yevgeni.

2015 7th International Congress on Ultra Modern Telecommunications and Control Systems and Workshops (ICUMT). IEEE, 2015. p. 298-304.

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

**A Co-creation Centre for University–Industry Collaboration – A Framework for Concept Development.** / Huhtelin, Mervi; Nenonen, Suvi.

In: *Procedia Economics and Finance*, Vol. 21, 2015, p. 137 - 145.

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

**A computationally feasible optimization approach to inverse SAR translational motion compensation.** / Vehmas, Risto; Jylhä, Juha; Väilä, Minna; Kylmälä, Jarkko.

Proceedings of the 12th European Radar Conference (EuRAD 2015). IEEE, 2015. p. 17-20.

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

**Acquisition of E5 Galileo signals in Matlab.** / Stepanova, Ekaterina; Kudryavtsev, Ilya; Lohan, Elena-Simona.

In: *Procedia Engineering*, Vol. 104, 2015, p. 36-42.

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

**A Cross-Cultural and Gender-Based Perspective for Online Security: Exploring Knowledge, Skills and Attitudes of Higher Education Students.** / Chaudhary, Sunil; Zhao, Yan; Berki, Eleni; Valtanen, Juri; Li, Linfeng; Helenius, Marko ; Mystakidis, Stylianos .

In: *IADIS International Journal on WWW/Internet*, Vol. 13, No. 1, 2015, p. 57-71.

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

**Active corrosion phase as a service life extension of concrete facades.** / Köliö, Arto; Lahdensivu, Jukka ; Pentti, Matti .

Proceedings of the Eurocorr 2015, European corrosion congress. Austrian Society for Metallurgy and Materials (ASMET); EFC; DECHEMA, 2015.

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

**A dynamic paper machine simulator for testing of model predictive control applications.** / Yli-Fossi, Timo; Kuusisto, Risto.

Proceedings of AutomaatioXXI seminaari. Suomen Automaatioseura ry, 2015. p. 1-6 (SAS julkaisusarja; No. 42).

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

**Air pressure difference between indoor and outdoor or staircase in multi-family buildings with exhaust ventilation system in Finland.** / Leivo, Virpi ; Kiviste, Mihkel; Aaltonen, Anu ; Turunen, Mari; Haverinen-Shaughnessy, Ulla.

In: *Energy Procedia*, Vol. 78C, 78C, 2015, p. 1218-1223.

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

**Aluetehokkuuden kustannusvaikutukset.** / Nisula, Jaakko; Saari, Arto.

Nollaa parempi – Townhouse energiatehokkaassa asuinrakentamisessa. Aalto-yliopisto, 2015. p. 102-107 (Aalto University publication series Crossover; No. 9/2015).

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

**A model based analysis of the measurement errors in inductively coupled passive resonance sensors.** / Salpavaara, Timo ; Lekkala, Jukka.

IMEKO XXI World Congress, Proceedings, August 30 - September 4, 2015, Prague, Czech Republic. ed. / Jan Holub. 2015.

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

**A model for anisotropic magnetostriction.** / Belahcen, Anouar; Kouhia, Reijo; Rasilo, Paavo; Ristinmaa, Matti.  
Proceedings of the XII Finnish Mechanics Days. Rakenteiden Mekaniikan Seura ry, 2015. p. 201-203.  
Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific

**An accurate small-signal model of a three-phase VSI-based photovoltaic inverter with LCL-filter.** / Aapro, Aapo; Messo, Tuomas; Suntio, Teuvo.  
9th International Conference on Power Electronics and ECCE Asia (ICPE-ECCE Asia). 2015. p. 2267-2274.  
Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

**Analysis of Cognitive Cooperative Networks with Best Relay Selection and Diversity Reception.** / Ho-Van, Khuong; Sofotasios, Paschalis C.; Que Son, Vo; Thanh Tra, Luu; Hong Lien, Pham.  
2015 International Conference on Advanced Technologies for Communications (ATC). IEEE, 2015. p. 651-656.  
Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

**Analysis of the aircraft operational reliability research series: From statistical models to avionics data monitoring.** / Laitinen, Jouko; Niemi, Arto.  
Proceedings of the 9th World congress on engineering asset management (WCEAM 2014), Pretoria, South Africa 28-31 Oct, 2014. 2015.  
Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

**Analysis on bus travel time through traffic light intersection.** / Kerminen, Riitta; Wang, Chenlu; Visa, Ari.  
ITS World Congress 2015 Proceedings: Towards Intelligent Mobility – Better Use of Space. 2015. EU-ITS-2051.  
Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Professional

**An anisotropic continuum damage model for concrete.** / Yaghoubi, Saba Tahaei; Hartikainen, Juha; Kolari, Kari; Kouhia, Reijo.  
Proceedings of the XII Finnish Mechanics Days: Suomen XII mekaniikkapäivien esitelmät. ed. / Reijo Kouhia; Jari Mäkinen; Sami Pajunen; Timo Saksala. Rakenteiden Mekaniikan Seura ry, 2015. p. 51.  
Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific

**A new generation sweating thermal manikin for the evaluation of the thermal comfort of protective clothing in Arctic Conditions.** / Varheenmaa, Minna.  
Arctic Wears - Perspectives on Arctic Clothing. ed. / Sanna Konola; Päivi Kähkönen. Lapland University of Applied Sciences, 2015. p. 154-161 (Liiketoiminta ja yrittäjyys Sarja B. Raportit ja selvitykset 10/2015).  
Research output: Chapter in Book/Report/Conference proceeding › Chapter › Scientific

**A new method to calculate natural convection heat transfer from a non-isothermal fin array.** / Lampio, Kaj; Karvinen, Reijo.  
Proceedings of the 7th Baltic Heat Transfer Conference, August 24-26 2015, Tallinn Estonia. ed. / Dmitri Neshumayev; Bengt Sundén. Tallinn : Tallinn University of Technology, 2015. (Baltic Heat Transfer Conference BHTC).  
Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

**An experimental and numerical study of the dynamic Brazilian disc test on Kuru granite.** / Mardoukhi, Ahmad; Saksala, Timo ; Hokka, Mikko ; Kuokkala, Veli-Tapani.  
Proceedings of the XII Finnish Mechanics Day. 2015. p. 210-215.  
Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific

**An Initial Homophily Indicator to Reinforce Context-Aware Semantic Computing.** / Rivero-Rodriguez, Alejandro; Pileggi, Paolo; Nykänen, Ossi.  
7th International Conference on Computational Intelligence, Communication Systems and Networks (CICSyN). Riga : IEEE, 2015. p. 89-93 (International Conference on Computational Intelligence, Communications and Networks).  
Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

**Anomaly Detection and Diagnostics of a Wheel Loader Using Dynamic Mathematical Model and Joint Probability Distributions.** / Krogerus, Tomi; Hyvönen, Mika; Backas, Joni; Huhtala, Kalevi.  
Proceedings of the Fourteenth Scandinavian International Conference on Fluid Power, SICFP15. May 20-22, 2015. Tampere, Finland. Tampere University of Technology. Department of Intelligent Hydraulics and Automation, 2015. (The Scandinavian International Conference on Fluid Power).



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

**Appearance of a Drift Problem in Variable-step Perturbative MPPT Algorithms.** / Kivimäki, Jyri; Suntio, Teuvo.  
31st European Photovoltaic Solar Energy Conference and Exhibition (EU PVSEC). 2015. p. 1602-1608.

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

**Application and Theory of Petri Nets and Concurrency : 36th International Conference, PETRI NETS 2015 Brussels, Belgium, June 21-26, 2015 Proceedings.** / Devillers, Raymond (Editor); Valmari, Antti (Editor).

Springer Verlag, 2015. (Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics); Vol. 9115).

Research output: Book/Report › Anthology › Scientific › peer-review

**Application of terrestrial LiDAR and modelling of tree branching structure for plant- scaling models in tropical forest trees.** / Lau Sarmiento, Alvaro; Bartholomeus, Harm; Herold, Martin; Martius, Christopher; Malhi, Yadvinder; Patrick Bentley, Lisa; Shenkin, Alexander; Raunonen, Pasi.

Proceedings of SilviLaser 2015: 14th conference on Lidar Applications for Assessing and Managing Forest Ecosystems. 2015. p. 96-98.

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

**A Proposal of Decentralized Architecture for OKD-MES.** / Ferrer, B. R.

Open Knowledge-Driven Manufacturing & Logistics: The eScop Approach. ed. / S. Strzelczak; Pavel Balda; Marco Garetti; Andrei Lobov. Warsaw : Warsaw University of Technology Publishing House, 2015. p. 331-340.

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

**Architecture for Open, Knowledge-Driven Manufacturing Execution System.** / Iarovy, Sergii; Xu, Xiangbin; Lobov, Andrei; Lastra, Jose L. Martinez; Strzelczak, Stanislaw.

Advances in Production Management Systems: Innovative Production Management Towards Sustainable Growth. Springer, 2015. p. 519-527.

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

**Arkinen liikkuminen kontekstina kaupunkitilan tarkasteluun.** / Tartia, Jani .

In: Versus, 2015.

Research output: Contribution to journal › Special issue › Scientific

**Assessing coupling dynamics from an ensemble of time series.** / Gómez-Herrero, Germán; Wu, Wei; Rutanen, Kalle; Soriano, Miguel C.; Pipa, Gordon; Vicente, Raul.

In: Entropy, Vol. 17, No. 4, 2015, p. 1958-1970.

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

**Assessment of student retention using the Evolute approach, an overview.** / Einolander, Jarno; Vanharanta, Hannu.

6th International Conference on Applied Human Factors and Ergonomics (AHFE 2015) and the Affiliated Conferences, AHFE 2015. Elsevier, 2015. p. 581-586 (Procedia Manufacturing; Vol. 3).

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

**A study of a condensing heat exchanger and electrostatic precipitator combination for small-scale wood combustion.** /

Grigonyte, J.; Sippula, O.; Tissari, J.; Laitinen, Ari; Keskinen, Jorma; Kortelainen, M.; Lamberg, H.; Jokiniemi, J.

European Aerosol Conference 2015: EAC 2015, Milan, Italy. 2015. 2COA\_P021.

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

**A study on the behaviour of the weathered crust in the Perniö failure test.** / D'Ignazio, Marco; Di Buo, Bruno; Länsivaara, Tim .

Proceedings of the XVI ECSMGE 2015: 13-17 September 2015 - Edinburgh, Geotechnical Engineering for Infrastructure and Development. ICE Publishing, 2015. p. 3639-3644.

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

**Background-Free Second-Harmonic Generation Microscopy of Individual Carbon Nanotubes.** / Bautista, Godofredo S.; Johansson, Andreas; Parappurath, Nikhil; Herranen, Olli; Myllyperkiö, Pasi; Jiang, Hua; Kauppinen, Esko; Pettersson, Mika; Kauranen, Martti.  
Nonlinear Optics 2015: Kauai, Hawaii United States 26–31 July 2015. OSA, 2015. NW1A.5 (Nonlinear Optics Conference Series).

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

**Balancing Expectations to the Health Software Production Process Standard.** / Väri, Alpo.  
The 3rd International Virtual Research Conference In Technical Disciplines. 2015. (RCITD - Proceedings in Research Conference in Technical Disciplines).

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

**Breathers Emergence in Spontaneous Modulation Instability.** / Toenger, S.; Godin, T.; Billet, C.; Dias, F.; Erkintalo, M.; Genty, G.; Dudley, J. M.

European Quantum Electronics Conference 2015. Optical Society of America (OSA), 2015. EF\_P\_25.

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

**CBRN Defense Using THz Pulse Trains from Semiconductor Disk Lasers.** / Saarinen, Esa.

NATO ARW on THz Diagnostics of CBRN effects and Detection of Explosives & CBRN: Proceedings of the NATO ARW on Detection of Explosives and CBRN. 2015. (NATO Science for Peace and Security Series B: Physics and Biophysics).

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

**CEO 2015 : Proceedings of the 8th Nordic Conference on Construction Economics and Organization.** / Kähkönen, Kalle (Editor); Huovinen, Pekka (Editor); Keinänen, Marko (Editor).

Tampere University of Technology. Department of Civil Engineering, 2015. 40 p. (Tampere University of Technology. Department of Civil Engineering. Construction Management and Economics. Report; Vol. 16).

Research output: Book/Report › Commissioned report › Professional

**Challenges Facing BIM Education : Development of Appropriate Teaching and Learning Resources.** / Puolitaival, Taija; Forsythe, Perry; Kähkönen, Kalle.

RICS COBRA AUBEA 2015: The Construction, Building and Real Estate Research Conference of the Royal Institution of Chartered Surveyors . London : Royal Institution of Chartered Surveyors, 2015.

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

**Changes in operations when introducing disruptive technologies.** / Martinsuo, Miia; Ahvenniemi, Olli; Vaittinen, Eija.

22nd EurOMA Conference: Operations management for sustainable competitiveness. Switzerland : European Operations Management Association, 2015.

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

**Characterizing the Context of Use in Mobile Work.** / Väättäjä, Heli.

Human Work Interaction Design. Work Analysis and Interaction Design Methods for Pervasive and Smart Workplaces: 4th IFIP 13.6 Working Conference, HWID 2015, London, UK, June 25-26, 2015, Revised Selected Papers. Springer Verlag, 2015. p. 97-113 (IFIP Advances in Information and Communication Technology; Vol. 468).

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

**Classification of Knowledge Representation Implementations in the Manufacturing Systems Domain.** / Ramis Ferrer, Borja

Open Knowledge-Driven Manufacturing & Logistics: The eScop Approach. ed. / S. Strzelczak; Pavel Balda; Marco Garetti; Andrei Lobov. Warsaw University of Technology Publishing House, 2015. p. 235-244.

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

**Comparison of Detection Techniques for Multipath Propagation of Pseudolite Signals Used in Dense Industrial Environments.** / Alexandru, Rusu-Cassandra; Lohan, Elena-Simona.

In: Procedia Engineering, Vol. 100, No. C, 2015, p. 1294-1300.

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

**Competence portfolio assessment of research and development center for regional development.** / Salminen, Vesa; Kantola, Jussi I.; Vanharanta, Hannu .  
6th International Conference on Applied Human Factors and Ergonomics (AHFE 2015) and the Affiliated Conferences, AHFE 2015 . Elsevier, 2015. p. 701-708 (Procedia Manufacturing; Vol. 3).  
Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

**Complexity and Digitalisation of Cities - Challenges for Urban Planning and Design : Conference Proceedings of 13th AESOP Complexity and Planning Thematic Group Meeting 15th-16th January 2015, Tampere, Finland.** / Partanen, Jenni (Editor).  
Tampere University of Technology. School of Architecture, 2015. 226 p.  
Research output: Book/Report › Anthology › Scientific › peer-review

**Computational modelling of high-cycle fatigue using a continuum based model.** / Holopainen, Sami; Kouhia, Reijo; Könnö, Juho; Saksala, Timo .  
Proceedings of the NSCM28: 28th Nordic Seminar on Computational Mechanics, October 22 – 23, 2015, Tallinn, Estonia. 2015. p. 71-74.  
Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific

**Concentration and composition gradients of exhaust and non-exhaust particles near a major road.** / Niemi, Jarkko V.; Saarikoski, Sanna; Pirjola, Liisa; Taimisto, P.; Pulkkinen, A.; Yli-Tuomi, T.; Lanki, T.; Kousa, Anu; Enroth, J.; Kuuluvainen, Heino; Rönkkö, Topi; Hillamo, Risto.  
EAC 2015, European Aerosol Conference, 6-11 September, 2015, Milan, Italy. 2015.  
Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Professional

**Consumer acceptance in new service innovation: Enhancing consumer durables with new product-related services.** / Vaittinen, Eija; Nenonen, Sanna.  
Proceedings of the 22nd Innovation Product Development Management Conference (IPDMC) . 2015. (International Product Development Management Conference).  
Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

**Creating sustainable value in manufacturing operations: the role of an external service provider.** / Martinsuo, Miia; Kivilä, Jesse; Heikkilä, Jussi.  
22nd EurOMA Conference: Operations management for sustainable competitiveness. Switzerland : European Operations Management Association, 2015.  
Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Professional

**Cross-Cultural Design of Mobile Mathematics Learning Service for South African Schools.** / Vainio, Teija; Walsh, Tanja; Varsaluoma, Jari.  
In: IADIS International Journal on WWW/Internet, Vol. 12, No. 1, 2015, p. 81-93.  
Research output: Contribution to journal › Article › Scientific › peer-review

**CueSense: a Wearable Proximity-Aware Display Enhancing Encounters.** / Jarusriboonchai, Pradthana; Olsson, Thomas; Prabhu, Vikas; Väänänen-Vainio-Mattila, Kaisa.  
CHI EA '15 Proceedings of the 33rd Annual ACM Conference Extended Abstracts on Human Factors in Computing Systems . ACM, 2015.  
Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

**Culture-Aware Web Information System Development.** / Jaakkola, Hannu ; Thalheim, Bernhard.  
25th International Conference on Information Modelling and Knowledge Bases EJC 2015 June 9-12, 2015, Maribor, Slovenia. ed. / Tatjana Welzer; Marko Hölbl; Yasushi Kiyoki; Bernhard Thalheim; Hannu Jaakkola. Maribor : University of Maribor, Faculty of Electrical Engineering and Computer Science, 2015. p. 121-138.  
Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

**Customers' conscious experience in a coffee shop.** / Vanharanta, Hannu; Kantola, Jussi ; Seikola, Sami.  
6th International Conference on Applied Human Factors and Ergonomics (AHFE 2015) and the Affiliated Conferences, AHFE 2015 . Elsevier, 2015. p. 618-625 (Procedia Manufacturing; Vol. 3).  
Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

**Detailed analysis of laser-induced breakdown spectroscopy of single particles using electrodynamic balance trapping.** / Järvinen, Samu T.; Saari, Sampo; Keskinen, Jorma; Toivonen, Juha.  
The European Conference on Lasers and Electro-Optics 2015. Optical Society of America, 2015. p. CH\_7\_5.  
Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific

**Diesel engine exhaust particle measurements using a particle size magnifier (PSM).** / Kuuluvainen, Heino; Karjalainen, Panu; Saukko, Erkki; Nousiainen, Pekka; Karhu, Toomas; Pirjola, Liisa; Keskinen, Jorma; Rönkkö, Topi.  
EAC 2015, European Aerosol Conference, 6-11 September, 2015, Milan, Italy. 2015.  
Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Professional

**Different types of non-volatile nanoparticles in off-road diesel engine exhaust.** / Kuuluvainen, Heino; Karjalainen, Panu; Saukko, Erkki; Nilsson, Olav; Sirviö, Katriina; Ovaska, Teemu; Niemi, Seppo; Keskinen, Jorma; Rönkkö, Topi.  
EAC 2015, European Aerosol Conference, 6-11 September, 2015, Milan, Italy. 2015.  
Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Professional

**Distributed Experiments in Design Sciences, a Next Step in Design Observation Studies?** / Kriesi, Carlo; Steinert, Martin; Aalto-Setälä, Laura; Anvik, Anders; Balters, Stephanie; Baracchi, Alessia; Jensen, Bisballe Matilde; Bjorkli, Leif Erik; Buzzaccaro, Nicolo; Cortesi, Dario; D'Onghia, Francesco; Dosi, Clio; Franchini, Giulia; Fuchs, Matt; Gerstenberg, Achim; Hansen, Erik; Hiekkänen, Karri Matias; Hyde, David; Ituarte, Inigo; Kalasniemi, Jani; Kurikka, Joonas; Lanza, Irene; Laurila, Anssi; Lee, Tik Ho; Lonvik, Siri; Mansikka-Aho, Anniina; Nordberg, Markus; Oinonen, Päivi; Pedrelli, Luca; Pekuri, Anna; Rane, Enna; Reime, Thov; Repokari, Lauri; Ronningen, Martin; Rowlands, Stephanie; Sjöman, Heikki; Slattsveen, Kristoffer; Strachan, Andy; Stromstad, Kirsti; Suren, Stian; Tapio, Peter; Utriainen, Tuuli; Vignoli, Matteo; Vijaykumar, Saurabh; Welo, Torgeir; Wulvik, Andreas.  
DS 80-2 Proceedings of the 20th International Conference on Engineering Design (ICED 15) Vol 2: Design Theory and Research Methodology Design Processes. ed. / C Weber; S Husung; M Cantamessa; G Cascini; D Marjanovic; S Venkataraman. DESIGN SOC, 2015. (International Conference on Engineering Design).  
Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific > peer-review

**Dynamic characteristics of three-phase Z-source-based photovoltaic inverter with asymmetric impedance network.** / Jokipii, Juha; Suntio, Teuvo.  
9th International Conference on Power Electronics ECCE Asia (ICPE-ECCE Asia). IEEE, 2015. p. 1976-1983.  
Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific > peer-review

**Editorial.** / Kähkönen, Kalle; Huovinen, Pekka; Keinänen, Marko.  
In: Procedia Economics and Finance, Vol. 21, 2015, p. 1-5.  
Research output: Contribution to journal > Editorial > Scientific

**Effect of active damping on the output impedance of PV inverter.** / Aapro, Aapo; Messo, Tuomas; Suntio, Teuvo.  
IEEE 16th Workshop on Control and Modeling for Power Electronics (COMPEL). 2015.  
Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific > peer-review

**Effect of Inductor Saturation on the Harmonic Currents of Grid-Connected Three-Phase VSI in PV Application.** / Viinamäki, Jukka; Jokipii, Juha; Suntio, Teuvo.  
2015 9th International Conference on Power Electronics and ECCE Asia (ICPE-ECCE Asia), 1-5 June 2015, Seoul. IEEE, 2015. p. 1209-1216.  
Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific > peer-review

**Emergence of relationship triads in construction project networks.** / Sariola, Rami.  
23rd Nordic Academy of Management conference, NFF, 12-14 August 2015, Copenhagen, Denmark. Copenhagen, Denmark : Nordic Academy of Management, 2015. p. 1-13 (Nordic Academy of Management Conference).  
Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Professional

**Emotion measurement services for knowledge workers.** / Vuolle, Maiju; Salenius, Henna-Riikka; Lintinen, Johanna; Mäkinen, Julia .  
RESER2015: 25th Annual RESER Conference, September 10-12, 2015 Copenhagen, Denmark. Copenhagen : RESER European Association for Research on Services, 2015.

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

**Energy efficiency evaluation method for machine tools.** / Ikkala, Kimmo; Lanz, Minna; Kiviö, Jouko; Coatanéa, Eric. Flexible Automation and Intelligent Manufacturing 2015. The Choir Press, 2015. p. 58-65.

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

**Engaging facts and feelings in management accounting practices.** / Laine, Teemu; Suomala, Petri; Saukkonen, Natalia. IFKAD 2015 : 10th International Forum on Knowledge Asset Dynamics, Bari, Italy, June 10th-12th. Italy : Institute of Knowledge Asset Management & Arts for Business Institute, 2015. (International forum on knowledge asset dynamics).

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

**Enhancement mechanisms for second-harmonic generation from metal nanostructures.** / Kauranen, Martti; Czaplicki, Robert; Mäkitalo, Jouni; Lehtolahti, Joonas; Koskinen, Kalle; Laukkanen, Janne; Kuittinen, Markku. PROCEEDINGS OF SPIE: Ultrafast Phenomena and Nanophotonics XX. Vol. 9746 2015.

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

**Entropy of weighted graphs with Randić weights.** / Chen, Zengqiang; Dehmer, Matthias; Emmert-Streib, Frank; Shi, Yongtang.

In: Entropy, Vol. 17, No. 6, 2015, p. 3710-3723.

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

**Erosion testing of filled and/or reinforced vinyl ester composites in water medium at elevated temperature.** / Siljander, Sanna; Kiviniemi, Meri; Sarlin, Essi; Lindgren, Mari; Suihkonen, Reija; Vuorinen, Jyrki. Proceedings of the 20th International Conference on Composite Materials. 2015.

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

**Evaluating organizational commitment in support of organizational leadership.** / Einolander, Jarno.

6th International Conference on Applied Human Factors and Ergonomics (AHFE 2015) and the Affiliated Conferences, AHFE 2015. Elsevier, 2015. p. 668–673 (Procedia Manufacturing; Vol. 3).

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

**Experimental demonstration of temporal ghost imaging.** / Ryczkowski, Piotr; Barbier, Margaux; Friberg, Ari T.; Dudley, John M.; Genty, Goery.

2015 European Conference on Lasers and Electro-Optics - European Quantum Electronics Conference. OSA, 2015. CF6\_3.

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

**Exploration of different boundary conditions in the sideways falling situation in hip fracture finite element modelling.** / Abe, Shinya; Ylinen, Antti; Narra Girish, Nathaniel; Nikander, Riku; Hyttinen, Jari; Kouhia, Reijo; Sievänen, Harri .

Proceeding of the XII Finnish Mechanics Days. Rakenteiden Mekaniikan Seura ry, 2015. p. 130-135.

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

**Exploring Attitudes, Knowledge and Competencies for Security Technology: A Cross-Cultural Survey in Higher Education.** / Chaudhary, Sunil; Zhao, Yan; Berki, Eleni; Valtanen, Juri; Li, Linfeng; Helenius, Marko ; Mystakidis, Stylianos; Nalam, Thrushna; Thapa, Rajendra Bahadur.

8th International Conference on ICT, Society and Human Beings 2015. 2015. p. 11-18.

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

**Extreme Nonlinear Signal Amplification.** / Närhi, Mikko; Genty, Goëry; Steinmeyer, Günter; Sand, Johan; Orsila, Lasse. 2015 European Conference on Lasers and Electro-Optics - European Quantum Electronics Conference. OSA, 2015.

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

**Fabrication of Fluorescent Silver Nanoclusters-based Micro-Label in Polymers.** / Kunwar, Puskal; Hassinen, Jukka; Bautista, Godofredo; Ras, Robin H.A.; Toivonen, Juha.

The European Conference on Lasers and Electro-Optics 2015. OSA, 2015. CM\_P\_5 (European Conference on Lasers and Electro-Optics Europe and International Quantum Electronics Conference).

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

**Gain Scheduling Full State Feedback with D-Implementation for Velocity Tracking of Hydrostatic Drive Transmission.** / Backas, Joni; Ghabcheloo, Reza; Huhtala, Kalevi .

Proceedings of the Fourteenth Scandinavian International Conference on Fluid Power, SICFP15. May 20-22, 2015. Tampere, Finland. Tampere University of Technology. Department of Intelligent Hydraulics and Automation, 2015. p. 64-75.

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

**Gas and particle composition and properties of photochemically aged ship plumes using chemical ionization and aerosol mass spectrometry.** / Psichoudaki, Magda; Faxon, Cameron; Kuuluvainen, Heino; Thomson, Erik S.; Eriksson, A.; Mallqvist, J.; Pettersson, Jan; Hallquist, Åsa; Kristensson, A.; Hallquist, Mattias.

EAC 2015, European Aerosol Conference, 6-11 September, 2015, Milan, Italy. 2015.

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

**Generalized multivariable small-signal model of three-phase grid-connected inverter in DQ-domain.** / Messo, Tuomas; Apro, Aapo; Suntio, Teuvo.

IEEE 16th Workshop on Control and Modeling for Power Electronics (COMPEL). IEEE, 2015.

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

**Green (In,Ga,Al)P-GaP light-emitting diodes grown on high-index GaAs surfaces.** / Ledentsov, N. N.; Shchukin, V. A.; Lyytikäinen, J.; Okhotnikov, O.; Cherkashin, N. A.; Shernyakov, Yu M.; Payusov, A. S.; Gordeev, N. Y.; Maximov, M. V.; Schlichting, S.; Nippert, F.; Hoffmann, A.

Proceedings of SPIE: Light-Emitting Diodes: Materials, Devices, and Applications for Solid State Lighting XIX. Vol. 9383 SPIE, 2015. 93830E.

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

**>8W GaInNAs VECSEL emitting at 615 nm.** / Leinonen, Tomi; Penttinen, Jussi Pekka; Korpijärvi, Ville Markus; Kantola, Emmi; Guina, Mircea.

Proceedings of SPIE: Vertical External Cavity Surface Emitting Lasers (VECSELs) V. Vol. 9349 SPIE, 2015. 934909.

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

**Guidelines for Designing Human-friendly User Interfaces for Factory Floor Manufacturing Operators.** / Järvenpää, Eeva; Lanz, Minna.

Advances in Production Management Systems: Innovative Production Management Towards Sustainable Growth: IFIP WG 5.7 International Conference, APMS 2015, Tokyo, Japan, September 7-9, 2015, Proceedings, Part II. Springer International Publishing, 2015. p. 531-538 (IFIP Advances in Information and Communication Technology).

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

**Harmonic and Imbalance Voltage Mitigation in Smart Grids: A DSTATCOM Based Solution.** / Roncero-Sanchez, Pedro; Acha, Enrique.

IEEE EUROCON 2015. 2015.

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

**Heat Loss Rate of the Finnish Building Stock.** / Vihola, Jaakko; Sorri, Jaakko; Heljo, Juhani; Kero, Paavo.

In: Procedia Economics and Finance, Vol. 21, 2015, p. 601-608.

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

**Hiekkatekonurmipintaisten pesäpallokenttien ominaisuuksien muuttuminen ja elinkaari.** / Jäniskangas, Tapani .

Tampereen teknillinen yliopisto. Rakennustekniikan laitos, 2015. 45 p. (Tampereen teknillinen yliopisto.

Rakennustekniikan laitos. Maa- ja pohjarakenteet. Tutkimusraportti; Vol. 80).

Research output: Book/Report › Commissioned report › Professional

**High Temperature Tension HSB Device Based on Direct Electrical Heating.** / Hokka, M.; Östman, K.; Rämö, J.; Kuokkala, V. T.

Dynamic Behavior of Materials, Volume 1: Proceedings of the 2014 Annual Conference on Experimental and Applied Mechanics. ed. / Bo Song; Daniel Casem; Jamie Kimberley. Vol. 65 Springer, 2015. p. 227-233 (Conference Proceedings of the Society for Experimental Mechanics Series).

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

**HKPro3 - Valtion tukemien homekorjaushankkeiden arviointi : Jatkotutkimus.** / Marttila, Tero; Annala, Petri; Kero, Paavo; Suonketo, Jommi; Heino, Satu; Pentti, Matti.

Tampereen teknillinen yliopisto, rakennustekniikan laitos, rakennustekniikka, 2015. 68 p. (Tampereen teknillinen yliopisto. Rakennustekniikan laitos. Rakennetekniikka; Tutkimusraportti; Vol. 163).

Research output: Book/Report › Commissioned report › Professional

**How to co-learn in campus.** / Salmisto, Alpo .

Oppiva kampus - How to co-create campus?. ed. / Suvi Nenonen; Sami Kärnä; Juha-Matti Junnonen; Sari Tähtinen; Niclas Sandström. Tampere : Suomen Yliopistokiinteistöt Oy, 2015. p. 320-337.

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

**Human Factor in Time Management.** / Reunanen, Tero.

In: Procedia Manufacturing, Vol. 3, 2015, p. 709-716.

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

**Hydrodynamic Classification of Natural Flows Using an Artificial Lateral Line and Frequency Domain Features.** / Tuhtan, J.A.; Strokina, Nataliya; Toming, Gert; Muhammad, N.; Kruusmaa, Maarja; Kämäräinen, Joni-Kristian.

36th IAHR World Congress. 2015.

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

**Identifying the potential of performance measurement in supporting strategic purchasing and supply chain management.** / Jääskeläinen, Aki; Heikkilä, Jussi; Thitz, Otto.

8th conference on performance measurement and management control. Nice, France : The European Institute for Advanced Studies in Management, EIASM, 2015. p. 1-21 (Conference on Performance Measurement and Management Control).

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

**Impedanssipneumografia pienten lasten alahengitystiesoireiden selvittelyssä.** / Seppä, V.-P.; Pelkonen, A. S.; Kotaniemi-Syrjänen, A.; Viik, J.; Mäkelä, M. J.; Malmberg, P.

Allergiatutkimussäätiön vuosikirja 2015. 2015. (Allergiakoulu).

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

**Importance and challenges of sharing experiences among an international and interdisciplinary group of doctoral students.** / Kurki, Vuokko ; Sidaraviciute, Ruta; Sörensen, Johanna ; Kibocha, Samuel Ngari; Retike, Inga ; Ikobe, Geoffrey ; Tichonovas, Martynas; Elijosiute, Erika ; Rajala, Riikka .

In: Ympäristöhistoria: Finnish Journal of Environmental History, No. 1/2015, 2015, p. 45-51.

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

**Improving project control by combining earned value analysis and automatic data collection.** / Vuorinen, Lauri; Sariola, Rami.

International Research Network in Organizing by Projects Conference 2015: IRNOP. London, U.K., 2015. p. 1.

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

**Improving Recovery Boiler Availability through Understanding Fume Behavior.** / Leppänen, Aino; Välimäki, Erkki.

TAPPI PEERS Conference Proceedings, October 25-28, 2015. Atlanta, Georgia : TAPPI, 2015.

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

**Incoherent Broadband Cavity Enhanced Absorption Spectroscopy Using a Supercontinuum Source in the Mid-IR.** / Amiot, Caroline G; Aalto, Antti; Toivonen, Juha; Genty, Goëry.

Laser Science 2015: Proceedings Frontiers in Optics 2015. 2015. JTU4A-80.

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

**Incoherent Broadband Cavity Enhanced Absorption Spectroscopy with a Supercontinuum Source.** / Amiot, Caroline; Aalto, Antti; Genty, Goëry; Toivonen, Juha.

2015 European Conference on Lasers and Electro-Optics - European Quantum Electronics Conference: Proceedings. Optical Society of America, 2015. p. CH\_P\_16.

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

**Increasing Employee Involvement in Socially Sustainable Manufacturing: Two Methods for Capturing Employees' Tacit Knowledge to Improve Manufacturing Processes.** / Kopra, Miia-Johanna; Halonen, Nillo; Järvenpää, Eeva; Lanz, Minna.

Advances in Production Management Systems: Innovative Production Management Towards Sustainable Growth: IFIP WG 5.7 International Conference, APMS 2015, Tokyo, Japan, September 7-9, 2015, Proceedings, Part II. Springer International Publishing, 2015. p. 539-546 (IFIP Advances in Information and Communication Technology).

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

**Infant respiration and heart rate monitoring with EMFi sensor.** / Rajala, Satu; Leikkala, Jukka.

IMEKO XXI World Congress, Proceedings, August 30 - September 4, 2015, Prague, Czech Republic. ed. / Jan Holub. 2015.

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

**Infinitesimals and Pavelka logic.** / Turunen, Esko; Navara, Mirko.

PROCEEDINGS OF THE 2015 CONFERENCE OF THE INTERNATIONAL FUZZY SYSTEMS ASSOCIATION AND THE EUROPEAN SOCIETY FOR FUZZY LOGIC AND TECHNOLOGY. ed. / JM Alonso; H Bustince; M Reformat. PARIS : Atlantis Press, 2015. p. 1027-1033 (Advances in Intelligent Systems Research; Vol. 89).

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

**Interdisciplinary water research network building within Nordic and Baltic countries.** / Sörensen, Johanna ; Kurki, Vuokko ; Sidoraviciute, Ruta ; Ngari Kibocha, Samuel ; Retike, Inga ; Ikobe, Geoffrey ; Tichonovas, Martynas ; Elijosiute, Erika ; Rajala, Riikka .

In: Vatten, No. 71, 2015, p. 79-83.

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

**Internet of Things, Smart Spaces, and Next Generation Networks and Systems : 15th International Conference, NEW2AN 2015, and 8th Conference, ruSMART 2015, St. Petersburg, Russia, August 26-28, 2015, Proceedings.** / Balandin, Sergey (Editor); Andreev, Sergey (Editor); Koucheryavy, Yevgeni (Editor).

Springer International Publishing, 2015. (Lecture Notes in Computer Science; Vol. 9247).

Research output: Book/Report › Anthology › Scientific › peer-review

**Jossakin vuoti öljy, muualla tihkuivat tiedot - etiikka katoavien rajojen ja suurten skandaalien aikakaudella.** / Lilja, Kari.

Silmät auki It-etiikkaan. EDUSKUNNAN TULEVAISUUSVALIOKUNTA, 2015. p. 85-101 (Eduskunnan tulevaisuusvaliokunnan julkaisu; No. 12).

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

**Kangasala-talo : Vanhan kulttuuripitäjän uusi kulttuuritalo.** / Koponen, Olli-Paavo.

In: Arkkitehti, Vol. 2015, No. 4/2015, 2015, p. 67-69.

Research output: Contribution to journal › Article › Professional

**Kattavasti rivitaloista.** / Helamaa, Anna .

In: Arkkitehti, No. 3, 2015, p. 80-81.

Research output: Contribution to journal › Book/Film/Article review › Professional

**Kiviaines- ja luonnonkiviteollisuuden kehitysnäkymät.** / Loukola-Ruskeeniemi, Kirsti (Editor); Lonka, Harriet (Editor); Ehrukainen, Eija; Gustafsson, Juhani; Honkanen, Mika; Härmä, Paavo; Jauhiainen, Pekka; Kuula, Pirjo ; Nenonen, Keijo; Pellinen, Terhi; Rintala, Jari; Selonen, Olavi; Martikainen, Mikko; Aalto, Mika.

Helsinki : Työ- ja elinkeinoministeriö, 2015. 72 p. (Työ- ja elinkeinoministeriön julkaisuja; Vol. 2015, No. 54).

Research output: Book/Report › Commissioned report › Professional

**Kohti tasapuolisempaa tutkimuksen arviointia : Pääkirjoitus.** / Katko, Tapio S.

In: Ympäristöhistoria: Finnish Journal of Environmental History, Vol. 5, No. 1, 2015, p. 4-5.

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



**Koteja ja kokonaistaideteoksia.** / Chudoba, Minna .

In: Arkkitehti, No. 3, 2015, p. 76-78.

Research output: Contribution to journal › Article › Professional

**Lean-tuotanto ja sen johtaminen: onnistuminen, haasteet ja soveltuminen Suomen yrityksiin ja muihin organisaatioihin.** / Heikkilä, Jussi ; Martinsuo, Miia .

In: Työpoliittinen aikakauskirja, No. 3, 2015, p. 18-24.

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

**Leveraging concepts for environmentally sustainable business management in construction - a focused review.** / Huovinen, Pekka .

CIB Proceedings 2015 : Going North for Sustainability: Leveraging Knowledge and Innovation for Sustainable Construction and Development. ed. / Charles Egbu . London, UK : IBEA Publications Ltd, 2015. p. 286-296.

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

**Liikuntapalveluiden ulkoistaminen ja palveluiden turvallisuus. Nykytilanne ja kuntien kokemukset – Loppuraportti.** / Hyytinen, Toni; Kivistö-Rahnasto, Jouni.

Helsinki : OPETUS- JA KULTTUURIMINISTERIÖ, 2015. 27 p. (Opetus- ja kulttuuriministeriön julkaisuja).

Research output: Book/Report › Commissioned report › Professional

**Low-cost 3D lidar for the mapping of autonomous mobile work machine.** / Kolu, Antti ; Rajapolvi, Kimmo; Hyvönen, Mika ; Multanen, Petteri; Huhtala, Kalevi .

Proceedings of the Fourteenth Scandinavian International Conference on Fluid Power, SICFP15. May 20-22, 2015. Tampere, Finland. 2015.

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

**LTE Performance Analysis Using Queuing Systems with Finite Resources and Random Requirements.** / Naumov, Valeriy; Samouylov, Konstantin; Yarkina, Natalia; Sopin, Eduard; Andreev, Sergey; Samuylov, Andrey.  
2015 7th International Congress on Ultra Modern Telecommunications and Control Systems and Workshops (ICUMT). IEEE, 2015. p. 100-103.

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

**Management and Planning Under Complexities of Metro Construction.** / Khosravi, Mahdi; Kähkönen, Kalle.

In: Procedia Economics and Finance, Vol. 21, 2015, p. 415-421.

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

**Managing Cultural Knowledge in Project Execution.** / Aramo-Immonen, Heli; Hietaoja, Helinä; Jussila, Jari Juhani; Ammirato, Salvatore.

10th International Forum on Knowledge Asset Dynamics, IFKAD 2015, Bari, Italy: Culture, Innovation and Entrepreneurship: connecting the knowledge dots. Vol. 10 Bari : IKAM Centro Studi & Ricerche, 2015. p. 1085-1096.

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

**Managing software engineering competences with domain ontology for customer and team profiling and training.** / Robal, T.; Ojastu, D.; Kalja, A.; Jaakkola, H.

PICMET '15 : Proceedings, Management of the Technology Age, August 2 - 6, 2015. ed. / Dundar Kocaoglu. Portland, Oregon, USA : PICMET, 2015. p. 1369 - 1376.

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

**Measurement of the Temporal Coherence of Supercontinuum Light.** / Närhi, Mikko; Genty, Goëry; Amiot, Caroline; Dutta, Rahul; Friberg, Ari T.; Dudley, John M.; Turunen, Jari.

2015 European Conference on Lasers and Electro-Optics - European Quantum Electronics Conference. OSA, 2015. EE\_3\_1.

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

**Measurements of particulates and gas phase precursors emissions from fresh ship plumes during the Big Glenn 2014 Campaign.** / Kuuluvainen, Heino; Faxon, Cameron; Psychoudaki, Magda; Thomson, Erik S.; Eriksson, A.; Kristensson, A.; Svenningsson, B.; Mellqvist, J.; Salo, K.; Hallquist, Mattias.

EAC 2015, European Aerosol Conference, 6-11 September, 2015, Milan, Italy. 2015.

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

**Meeting of Vernacular and Modern Architecture in Urbino : Giancarlo De Carlo and reading of the context.** / Koponen, Olli-Paavo.

Italian Vernadoc 2015 – Amandola: Studying Italia and its architecture. The first 10 VERNADOC-years. ed. / Markku Mattila. Helsinki : Suomen ICOMOS, kansanrakentamisen komitea, 2015. p. 26-29.

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

**Mezhdunarodnaya konferencia po pozicionirovaniyu i navigacii vnutri pomeshhenij.** / Piche, Robert Adrien.

In: Giroskopiya I Navigatsiya, Vol. 88, No. 1, 2015, p. 122-124.

Research output: Contribution to journal › Article › Scientific

**Monitoring urban air quality with a diffusion charger based electrical particle sensor.** / Järvinen, A.; Kuuluvainen, H.; Niemi, J.V.; Saari, S.; Dal Maso, M.; Pirjola, L.; Hillamo, R.; Janka, K.; Keskinen, J.; Rönkkö, T.

In: Urban Climate, Vol. 14, No. 3, 2015.

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

**Monolithic GaInNAsSb/GaAs VECSEL emitting at 1550 nm.** / Korpijärvi, Ville-Markus; Kantola, Emmi L.; Leinonen, Tomi; Guina, Mircea.

SPIE conference proceedings. Vol. 9349 SPIE, 2015. 93490D.

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

**New mechanistic design approach for subgrade rutting of Low Volume Roads.** / Kolisoja, Pauli ; Kalliainen, Antti ; Vuorimies, Nuutti .

XVI ECSMGE 2015, 13-17 September 2015 - Edinburgh: Geotechnical engineering for infrastructure and development. 2015. p. 301-306.

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

**New routes from cellulose to textile fiber and ready products.** / Nousiainen, Pertti; Rissanen, Marja; Michud, Anne; Sixta, Herbert; Hummel, Michael; Setälä, Harri.

Proceedings of 15th Autex World Textile Conference, June 10-12, 2015, Bucharest, Romania. 2015.

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

**New tools to help in the recruitment process.** / Visa, Ari; Einolander, Jarno; Vanharanta, Hannu.

6th International Conference on Applied Human Factors and Ergonomics (AHFE 2015) and the Affiliated Conferences, AHFE 2015. Elsevier, 2015. p. 653-659 (Procedia Manufacturing; Vol. 3).

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

**Non-Instantaneous Polarization Dynamics in Resonant Dielectrics.** / Hyyti, J.; Hofmann, M.; Birkholz, S.; Bock, M.; Das, S. K.; Grunwald, R.; Hoffmann, M.; Nagy, T.; Demircan, A.; Jupé, M.; Ristau, D.; Morgner, U.; Brée, C.; Woerner, M.; Elsaesser, T.; Steinmeyer, G.

2015 European Conference on Lasers and Electro-Optics - European Quantum Electronics Conference. Washington, D.C. : Optical Society of America, 2015. EE\_5b\_2.

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

**Novel Method For Online Stereo Self-Calibration.** / Melin, Joonas; Ritala, Risto.

XXI IMEKO World Congress "Measurements In Research and Industry". 2015.

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

**Numerical modelling of rock fracture with the embedded discontinuity approach incorporating heterogeneity.** / Saksala, Timo.

ISRM Congress 2015 Proceedings: Innovations in Applied and Theoretical Rock Mechanics. International Society for Rock Mechanics ISRM, 2015. 177.

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

**On Predicting Video Quality Expectations of Mobile Users.** / Hosek, Jiri; Kovac, Dominik; Uhlir, Dalibor; Galinina, Olga; Andreev, Sergey; Koucheryavy, Yevgeni; Ries, Michal.  
2015 7th International Congress on Ultra Modern Telecommunications and Control Systems and Workshops (ICUMT). IEEE, 2015. p. 110-115.

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

**On service composition - dynamic formation and orchestration of service workflows.** / Lobov, Andrei.  
Open Knowledge-Driven Manufacturing and Logistics - The eScop Approach. ed. / Stanislaw Strzelczak; Pavel Balda; Marco Garetti; Andrei Lobov. Warsaw University of Technology Publishing House, 2015. p. 311-319.

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

**On the effect of damping on stability of non-conservative systems.** / Jeronen, Juha; Kouhia, Reijo.  
Proceedings of the XII Finnish Mechanics Days: Suomen XII mekaniikkapäivien esitelmät. ed. / Reijo Kouhia; Jari Mäkinen; Sami Pajunen; Timo Saksala. Rakenteiden Mekaniikan Seura ry, 2015. p. 77.

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

**Open knowledge-driven manufacturing & logistics - The eScop approach.** / Strzelczak, Stanislaw (Editor); Balda, Pavel (Editor); Garetti, Marco (Editor); Lobov, Andrei (Editor).  
Warsaw, Poland : Warsaw University of Technology Publishing House, 2015. 404 p.

Research output: Book/Report › Anthology › Scientific › peer-review

**Optimal operation of a three camera system on a four-wheel robot.** / Raunio, Jukka-Pekka; Ritala, Risto; Välimäki, Tuomas.  
IMEKO XXI World Congress, Fundamental and Applied Metrology, Proceedings, August 31-September 4, 2015, Prague, Czech Republic. 2015. p. 968-973.

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

**Performance management practices in construction business - a service recovery perspective.** / Vuolle, Maiju; Sillanpää, Virpi.

8th Conference on Performance Measurement and Management Control. The European Institute for Advanced Studies in Management, EIASM, 2015. (Conference on Performance Measurement and Management Control).

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

**Photometric stereo system for detailed analysis of material surfaces.** / Mettänen, Marja ; Melin, Joonas ; Ihalainen, Heimo.  
IMEKO XXI World Congress, Measurement in Research and Industry, Proceedings, August 30 - September 4, 2015, Prague, Czech Republic. 2015.

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

**Physical and chemical properties of real exhaust particle emissions from city buses.** / Pirjola, Liisa; Dittrich, A.; Niemi, Jarkko V.; Saarikoski, Sanna; Malinen, Aleks; Kuuluvainen, Heino; Wihersaari, Hugo; Timonen, Hilikka; Kousa, Anu; Rönkkö, Topi; Hillamo, Risto.

EAC 2015, European Aerosol Conference, 6-11 September, 2015, Milan, Italy. 2015.

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

**Piezoelectric sensitivity measurements of cellulose nanofibril sensors.** / Rajala, Satu; Vuoriluoto, Maija; Rojas, Orlando; Franssila, Sami; Tuukkanen, Sampo .

IMEKO XXI World Congress, Proceedings, August 30 - September 4, 2015, Prague, Czech Republic. ed. / Jan Holub. 2015.

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

**Postmodernismi Suomen rakennusperinnössä.** / Koponen, Olli-Paavo.

In: Arkkitehti, Vol. 2015, No. 2/2015, 2015, p. 72-74.

Research output: Contribution to journal › Article › Professional

**Potentials of web standards for automation control in manufacturing systems.** / Borja Ramis, Ferrer; Iarovyi, Sergii; Lobov, Andrei; Martinez Lastra, Jose L.

2015 IEEE European Modelling Symposium. 2015. p. 359-366.

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

**Power and wavelength scaling using semiconductor disk laser - bismuth fiber MOPA systems.** / Heikkinen, Juuso; Gumenyuk, Regina; Rantamäki, Antti; Lyytikäinen, Jari; Leinonen, Tomi; Zolotovskii, Igor; Melkumov, Mikhail; Dianov, Evgeny M.; Okhotnikov, Oleg G.

Vertical External Cavity Surface Emitting Lasers (VECSELs) V. ed. / M Guina. BELLINGHAM : SPIE, 2015. 93490E (Proceedings of SPIE; Vol. 9349).

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

**Principles of designing for situation awareness.** / Haapanen, Jussi.

Tampere : Maanpuolustuskorkeakoulu Sotatekniikan laitos, 2015. p. 29-46 (Situational awareness for critical infrastructure protection; Vol. 3, No. 1).

Research output: Working paper › Professional

**Proactive vision for strategy making.** / Vanharanta, Hannu; Kantola, Jussi.

6th International Conference on Applied Human Factors and Ergonomics (AHFE 2015) and the Affiliated Conferences, AHFE 2015. Elsevier, 2015. p. 587-594 (Procedia Manufacturing; Vol. 3).

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

**Proceedings of the 25th International Conference on Information Modelling and Knowledge Bases (EJC 2015), 8-12 June, 2015, Maribor, Slovenia.** / Welzer, Tatjana (Editor); Hölbl, Marko (Editor); Kiyoki, Yasushi (Editor); Thalheim, Bernhard (Editor); Jaakkola, Hannu (Editor).

Maribor, Slovenia : University of Maribor, Faculty of Electrical Engineering and Computer Science, 2015.

Research output: Book/Report › Anthology › Scientific › peer-review

**Projektioppiminen yläkoulun matematiikassa.** / Viro, Elina; Eriksson, Sirkka-Liisa.

In: Lumat, Vol. 3, No. 7, 2015, p. 1005-1009.

Research output: Contribution to journal › Article › Professional

**Pseudo-Random Sequences in DQ-Domain Analysis of Feedforward Control in Grid-Connected Inverters.** / Roinila, Tomi; Messo, Tuomas; Suntio, Teuvo; Vilkkö, Matti.

17th IFAC Symposium on System Identification SYSID 2015 – Beijing, China, 19–21 October 2015. 2015. p. 1301-1306 (IFAC-PapersOnLine; Vol. 48, No. 28).

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

**Public-sector as an Initiator in a Collaborative Innovation Process.** / Suominen, Anu Helena; Mäenpää, Sari; Breite, Rainer

The XXVI ISPIM Innovation Conference – Shaping the Frontiers of Innovation Management – Budapest, Hungary, 14-17 June 2015. International Society for Professional Innovation Management ISPIM, 2015.

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

**Puu-Hubi : Perinteestä uusiin innovaatioihin.** / Hynynen, Ari (Editor); Panu, Anne-Marjo (Editor); Taanila, Tuulia (Editor).

Tampereen teknillinen yliopisto. Arkkitehtuurin laitos, 2015. 107 p.

Research output: Book/Report › Commissioned report › Professional

**Puurakentamisesta potkua alueiden ja kaupunkien kehittämiseen.** / Hynynen, Ari.

Puu-Hubi. : Perinteestä uusiin innovaatioihin. ed. / Ari Hynynen; Anne-Marjo Panu; Tuulia Taanila. Tampereen teknillinen yliopisto. Arkkitehtuurin laitos, 2015. p. 75-93.

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

**Quantification of the ionic current contributions to alterations in the action potential repolarization by means of piecewise-linear approximation.** / Paci, Michelangelo; Hyttinen, Jari; Severi, Stefano.

Computing in cardiology 2015. 2015. p. 145-148 (Computing in Cardiology; Vol. 42).

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

**Quantitative structure tree models from terrestrial laser scanner data.** / Raumonen, Pasi Antero.  
Proceedings of SilviLaser 2015: 14th conference on Lidar Applications for Assessing and Managing Forest Ecosystems. 2015. p. 32-34.  
Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Professional

**Raitiotien seisakkeet : Yhdyskuntasuunnittelun jatkokurssi A ja B.** / Chudoba, Minna (Editor); Rajaniemi, Juho (Editor); Virkkala, Julia (Editor).  
Tampere University of Technology, School of Architecture, 2015. 74 p.  
Research output: Book/Report > Commissioned report > Professional

**Rakennusfysiikka 2015. Uusimmat tutkimustulokset ja hyvät käytännön ratkaisut : 20.-22.10.2015, Tampere. Seminaarijulkaisu 4.** / Vinha, Juha (Editor); Ruuska, Tiina (Editor).  
Tampere : Tampereen teknillinen yliopisto. Rakennustekniikan laitos, 2015. (Tampereen teknillinen yliopisto, rakennustekniikan laitos, rakennetekniikka, seminaarijulkaisu).  
Research output: Book/Report > Anthology > Scientific > peer-review

**Rakennusten energiatehokkuuden parantamisen vaikutukset - Insulate-projektin tuloksia.** / Leivo, Virpi ; Turunen, Mari; Aaltonen, Anu ; Kiviste, Miikel; Pekkonen, Maria; Haverinen-Shaughnessy, Ulla .  
Rakennusfysiikka 2015: Uusimmat tutkimustulokset ja hyvät käytännön ratkaisut, 20.-22-10.2015, Tampere. Tampereen teknillinen yliopisto, rakennustekniikan laitos, rakennetekniikka, 2015. p. 369-380.  
Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific > peer-review

**Rakennusten rakennusfysikaalisen suunnittelun ja toteutuksen periaatteet.** / Vinha, Juha.  
Rakentajain kalenteri 2016. Rakennustieto Oy, 2015. p. 399-426 (Rakentajain kalenteri; Vol. 100).  
Research output: Chapter in Book/Report/Conference proceeding > Chapter > Professional

**Rakenteiden ääneneristyskyvystä asumismelun kokemiseen.** / Kylliäinen, Mikko .  
Rakentajain Kalenteri. Helsinki : Rakennustieto Oy, 2015. p. 92-96.  
Research output: Chapter in Book/Report/Conference proceeding > Chapter > Professional

**Recent progress in wafer-fused VECSELs emitting in the 1310 nm waveband.** / Sirbu, A.; Rantamäki, A.; Iakolev, V.; Mereuta, A.; Caliman, A.; Volet, N.; Lyytikäinen, J.; Okhotnikov, O.; Kapon, E.  
Proceedings of SPIE vol. 8966, 2014.. ed. / M Guina. BELLINGHAM : SPIE, 2015. (Proceedings of SPIE; Vol. 9349).  
Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific > peer-review

**Reducing uncertainties in above-ground biomass estimates using terrestrial laser scanning.** / Calders, Kim; Burt, Andrew; Newnham, Glenn; Disney, Mathias; Murphy, Simon; Raumonen, Pasi; Herold, Martin; Culvenor, Darius; Armston, John; Avitabile, Valerio; Kaasalainen, Mikko.  
Proceedings of SilviLaser 2015: 14th conference on Lidar Applications for Assessing and Managing Forest Ecosystems. 2015. p. 197-199.  
Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Professional

**Relational Capital for Shared Vision in Innovation Ecosystems.** / Russell, Martha G.; Huhtamäki, Jukka; Still, Kaisa; Rubens, Neil; Basole, Rahul C.  
In: Triple Helix: A Journal of University-Industry-Government Innovation and Entrepreneurship, Vol. 2, No. 1, 2015.  
Research output: Contribution to journal > Article > Scientific > peer-review

**Remarks on characterization of bent functions in terms of gibbs dyadic derivatives.** / Stanković, Radomir S.; Astola, Jaakko T.; Moraga, Claudio; Stanković, Milena; Gajić, Dušan.  
Computer Aided Systems Theory – EUROCAST 2015: 15th International Conference, Las Palmas de Gran Canaria, Spain, February 8-13, 2015, Revised Selected Papers. Springer, 2015. p. 632-639 (Lecture Notes in Computer Science; Vol. 9520).  
Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific > peer-review

**Resilient Asset Management and Governance Fordeteriorating Water Services Infrastructure.** / Hukka, Jarmo J.; Katko, Tapio S.

In: Procedia Economics and Finance, Vol. 21, 2015, p. 112-119.

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

**Riding for a fall in outsourced ISD: Knowledge transfer challenges between the onshore vendor and the offshored unit.** / Alanne, Aki; Pekkola, Samuli.

Achieving Success and Innovation in Global Sourcing: Perspectives and Practices: 9th Global Sourcing Workshop 2015, La Thuile, Italy, February 18-21, 2015, Revised Selected Papers. ed. / Ilari Oshri; Julia Kotlarsky; Leslie Willcocks. Germany : Springer Verlag, 2015. p. 124-140 (Lectures Notes in Business Information Processing; Vol. 236).

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

**Safety, Space and Structure Quality Requirements in Construction Scheduling.** / Bragadin, Marco A.; Kähkönen, Kalle.

In: Procedia Economics and Finance, Vol. 21, 2015, p. 407-414.

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

**Savukaasun NOx-päästöjen epäsuora monitorointi maakaasukäyttöisissä polttolaitoksissa.** / Korpela, Timo; Kumpulainen, Pekka; Majanne, Yrjö; Häyrinen, Anna.

Automaatio XXI seminaari. ed. / Sirkka-Liisa Jämsä-Jounela. Suomen Automaatioseura, 2015. p. 1-6 (SAS julkaisusarja; No. 44).

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

**Scanning of radioluminescence emission with a PMT for remote detection of alpha contamination.** / Sand, J.; Ihantola, S.; Nicholl, A.; Hrncek, E.; Toivonen, J.; Toivonen, H.; Peräjärvi, K.

The European Conference on Lasers and Electro-Optics 2015. Optical Society of America, 2015. CN\_2\_3.

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

**Seinäjoen ydinkeskustan olennaiset kehitysvaiheet ja sen 1950 - 70-lukujen rakennusperinnön arvottamisperiaatteita.** / Hirvonen, Tuomo.

Tampere : Tampereen teknillinen yliopisto. Arkkitehtuurin laitos, 2015. 121 p.

Research output: Book/Report › Commissioned report › Professional

**Service Failure and Interruption Probability Analysis for Licensed Shared Access Regulatory Framework.** / Gudkova, Irina; Samouylov, Konstantin; Ostrikova, Darya; Mokrov, Evgeniy; Ponomarenko-Timofeev, Aleksei; Andreev, Sergey; Koucheryavy, Yevgeni.

2015 7th International Congress on Ultra Modern Telecommunications and Control Systems and Workshops (ICUMT). IEEE, 2015. p. 123-131.

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

**Shadow Ghost Imaging in the Time Domain.** / Ryczkowski, Piotr; Barbier, Margaux; Friberg, Ari T; Dudley, John M; Genty, Goëry.

Frontiers in Optics 2015. OSA, 2015. FW6C.1.

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

**Shared use of research laboratories Changing spatial concepts : A Case Study in a Finnish Biomedical Organization.** / Yläoutinen, Jyrki; Peltoniemi, Sanna; Nenonen, Suvi.

Conference on Research on Health Care Architecture: ARCH 14 Conference Proceedings November 19-21, 2014, Espoo, Finland. Helsinki, 2015. p. 183-197 (Aalto University publication series ART + DESIGN + ARCHITECTURE, 6/2015).

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

**Simulation of ash-forming compounds in the kraft recovery boiler.** / Leppänen, A.; Välimäki, E.; Oksanen, A.

10th European Conference on Industrial Furnaces and Boilers. Porto, Portugal, 2015.

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

**Simulointi nopeuttaa käyttöiän määrittystä.** / Ojala, Petteri; Saarenrinne, Pentti; Miettinen, Juha; Multanen, Petteri; Kiilunen, Janne; Hietala, Jukka-Pekka; Kolu, Antti; Pippola, Juha; Mostofizadeh, Milad; Ylönen, Markku.

In: Promaint, Vol. 2, 2015, p. 24-27.

Research output: Contribution to journal › Article › Professional

**Single micro-particle scattering detection based on Edge Filter Enhanced Self-Mixing Interferometry.** / Contreras, Victor; Lonnqvist, Jan; Toivonen, Juha.

2015 European Conference on Lasers and Electro-Optics - European Quantum Electronics Conference. Optical Society of America, 2015. p. CH\_P\_11.

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

**Social and Economic Importance of Water Services in the Built Environment: Need for More Structured Thinking.** / Katko, Tapio S.; Hukka, Jarmo J.

In: Procedia Economics and Finance, Vol. 21, 2015, p. 217-223.

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

**Social capital in hybrid governance - Case study in a global subcontracting process.** / Mäenpää, Sari; Breite, Rainer .

Proceedings of the 24th Annual IPSERA Conference Preparing for new competitive challenges, March 29-April 1, Amsterdam, the Netherlands. IPSERA, 2015.

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

**Social media applications in external B2B transactions : An empirical analysis of the Finnish technology industry.** / Jussila, Jari Juhani; Kärkkäinen, Hannu; Aramo-Immonen, Heli; Ammirato, Salvatore; Michele Felicetti, Alberto; Della Gala, Marco.

10th International Forum on Knowledge Asset Dynamics: Culture, Innovation and Entrepreneurship: connecting the knowledge dots. Vol. 10 Bari, 2015. p. 1930-1940.

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

**Some aspects of molecular physics in measuring tissue samples using enose for disease diagnostics.** / Karjalainen, Markus; Roine, Antti; Oksala, Niku; Leikkala, Jukka.

XXI IMEKO World Congress "Measurement in Research and Industry". IMEKO-International Measurement Federation Secretariat, 2015.

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

**Stirring the Construction Project Management with Co-creation and Continuous Improvement.** / Savolainen, Jussi;

Kähkönen, Kalle; Niemi, Olli; Poutanen, Jenni; Varis, Elisa.

In: Procedia Economics and Finance, Vol. 21, 2015, p. 64-71.

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

**Strategic planning and epistemology of change: Probing the fitness of urban and planning systems with resilient spatial strategies.** / Rantanen, Annuska; Joutsiniemi, Anssi .

Sustainable Futures in a Changing Climate: Proceedings of the Conference "Sustainable Futures in a Changing Climate", 11-12 June 2014, Helsinki, Finland. ed. / Aino Hatakka; Jarmo Vehmas. Vol. 2/2015 Turku : Finland Futures Research Centre, University of Turku, 2015. p. 336-347 (FFRC eBOOK 2/2015).

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

**Surrogate model for rotational stiffness of welded tubular Y-joints.** / Heinisuo, Markku; Mela, Kristo; Tiainen, Teemu; Jokinen, Timo; Baczkiwicz, Jolanta; Garifullin, Marsel.

METNET Tenth International Seminar in Budapest 13.-14.10.2015. 2015. p. 18-39 (HAMKin julkaisu; No. 15).

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

**Sustainable and responsible freight transport through public-private collaboration : Finnish road freight responsibility model** . / Nykänen, Lasse ; Rantala, Jarkko ; Liimatainen, Heikki .

NOFOMA 2015: Post Conference Proceedings, Molde, 3-5 June 2015, Nordic Logistics Research Network. Nordic Logistics Research Network Publisher , 2015. p. 238-252.

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

**Sustainable Design Studio 2014.** / Edelman, Harry (Editor); Härkönen, Kaisa (Editor).

Tampere University of Technology. School of Architecture, 2015. 79 p.

Research output: Book/Report › Commissioned report › Professional

**Suunnittelutyökalu putkiristikoiden mitoitukseen ja optimointiin.** / Mela, Kristo; Alinikula, Mikko; Tiainen, Teemu; Heinisuo, Markku ; Sorsa, Ilkka.

Proceedings of the XII Finnish Mechanics Days. Suomen XII Mekaniikkapäivien esitelmät. Rakenteiden Mekaniikan Seura ry, 2015. p. 136-141.

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

**Systematic Literature Review on Enterprise Architecture in the Public Sector.** / Dang, Dinh; Pekkola, Samuli.

The 38th Information Systems Research Conference in Scandinavia (IRIS38). ed. / Anssi Öörni; Netta Iivari; Kari Kuutti; Harri Oinas-Kukkonen; Mikko Rajanen. 2015.

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

**Systematic Search and Ranking of Physical Contradictions Using Graph Theory Principles: Toward a Systematic Analysis of Design Strategies and their Impacts : TRIZ and Knowledge-Based Innovation in Science and Industry.** / Coatanéa, Eric ; Ryytänen, Leena; Calonius, Olof; Mokammel, Faisal; Riitahuhta, Asko.

In: Procedia Engineering, Vol. 131, 2015, p. 1165-1182.

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

**Tammerkoski ja Hämeenkatu Tampereen arkkitehtonisen identiteetin ankkureina.** / Koponen, Olli-Paavo.

Tampereen tarina: Teollisuuden synnyttämä kaupunki harjujen ja järvien solmukohtassa. ed. / Ranja Hautamäki. Vol. Julkaisuja 5/2015 Kaupunkiympäristön kehittäminen : Tampereen kaupunki, 2015. p. 35-42 (Tampereen kaupunki/Kaupunkiympäristön kehittäminen; Vol. 5/2015).

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

**Tampereelta valmistuneiden vesihuoltoalan diplomi-insinöörin sijoittuminen ja odotukset yliopisto-opetukselle.** / Katko, Tapio Sakari; Lukka, Anna; Rajala, Riikka.

In: Vesitalous, No. 2, 2015, p. 45-47.

Research output: Contribution to journal › Article › Professional

**Taskinen yksissä kansissa.** / Passinmäki, Pekka .

In: Arkkitehti, No. 2, 2015, p. 89-90.

Research output: Contribution to journal › Article › Professional

**Temperature Effect on Breakdown Performance of Insulating Polymer Thin Films.** / Ritämäki, Mikael; Rytöluoto, Ilkka ; Lahti, Kari .

24th Nordic Insulation Symposium on Materials, Components and Diagnostics, Proceedings. 2015. p. 75-79 (Proceedings of the Nordic Insulation Symposium; No. 24).

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

**Temporal Ghost Imaging.** / Ryczkowski, Piotr; Barbier, Margaux; Friberg, Ari T; Dudley, John M; Genty, Goëry.

Frontiers in Optics 2015. OSA, 2015. FTh4D.4.

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

**Teräsristikon paarteiden liitoksen vapaan välin leikkausvoiman arviointi.** / Tiainen, Teemu; Heinisuo, Markku .

Proceedings of the XII Finnish Mechanics Days. Suomen XII Mekaniikkapäivien esitelmät. Rakenteiden Mekaniikan Seura ry, 2015. p. 30-35.

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

**Terrestrial LiDAR and 3D tree Quantitative Structure Model for quantification of aboveground biomass loss from selective logging in a tropical rainforest of Peru.** / Gonzalez de Tanago, Jose; Bartholomeus, Harm; Joseph, Shijo; Herold, Martin; Avitabile, Valerio; Goodman, Rosa; Raunonen, Pasi; Burt, Andrew.

Proceedings of SilviLaser 2015: 14th conference on Lidar Applications for Assessing and Managing Forest Ecosystems. 2015. p. 119-121.

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



**The Company Democracy Model for the Development of Intellectual Human Capitalism for Shared Value.** / Markopoulos, Evangelos; Vanharanta, Hannu .  
6th International Conference on Applied Human Factors and Ergonomics (AHFE 2015) and the Affiliated Conferences, AHFE 2015. Elsevier, 2015. p. 603-610 (Procedia Manufacturing; Vol. 3).  
Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

**The effect of physical adhesion promotion treatments on interfacial adhesion in cellulose-epoxy composite.** / Siljander, Sanna; Lehmonen, Jani; Tanaka, Atsushi; Ketoja, Jukka; Heikkilä, Pirjo; Lahti, Johanna; Sarlin, Essi; Vuorinen, Jyrki.  
Proceedings of the 20th International Conference on Composite Materials. 2015.  
Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Professional

**The Effects of Initial Moisture on Damp Problems of a Timber Framed Wall Construction - a Numerical Approach.** / Fedorik, Filip; Malaska, Mikko.  
Proceedings of the XII Finnish Mechanics Days : Finnish mechanics days . ed. / Reijo Kouhia; Jari Mäkinen; Sami Pajunen; T. Saksala. Espoo, Finland : Finnish Association for Structural Mechanics, 2015. p. 18-23.  
Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

**The Extended 1-D (One-Dimensional) Discrete Phase Retrieval Problem.** / Rusu, Corneliu; Astola, Jaakko.  
Computer Aided Systems Theory – EUROCAST 2015: 15th International Conference, Las Palmas de Gran Canaria, Spain, February 8-13, 2015, Revised Selected Papers. Springer, 2015. p. 640-647 (Lecture Notes in Computer Science; Vol. 9520).  
Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

**The Fourteenth Scandinavian International Conference on Fluid Power, SICFP15 : Proceedings .** / Laamanen, Arto (Editor); Huhtala, Kalevi (Editor).  
Tampere University of Technology. Department of Intelligent Hydraulics and Automation, 2015. 835 p. (Scandinavian International Conference on Fluid Power (SICFP)).  
Research output: Book/Report › Anthology › Scientific › peer-review

**The Fourteenth Scandinavian International Conference on Fluid Power, SICFP15 : Abstracts.** / Laamanen, Arto (Editor); Huhtala, Kalevi (Editor).  
Tampere University of Technology, Department of Intelligent Hydraulics and Automation, 2015. 100 p.  
Research output: Book/Report › Anthology › Scientific › peer-review

**The New Era of Crowdsourcing — Industrial Crowdsourcing.** / Kärkkäinen, Hannu; Jussila, Jari ; Erkinheimo, Pia.  
Open Innovation Yearbook 2015. ed. / Bror Salmelin. Brussel : European Commission, 2015. p. 25-31.  
Research output: Chapter in Book/Report/Conference proceeding › Chapter › Scientific › peer-review

**Theoretical 71-Concept Platform for Advancing Construction-related Business Management.** / Huovinen, Pekka.  
In: Procedia Economics and Finance, Vol. 21, 2015, p. 80-87.  
Research output: Contribution to journal › Article › Scientific › peer-review

**Thermomechanical properties of overmold epoxies in MEMS packaging.** / Fard Sanei, Mohammad Ali; Kiilunen, Janne; Pippola, Juha; Lahokallio, Sanna; Frisk, Laura.  
Proceedings of the IMAPS Nordic Annual Conference , June 8-9, 2015, Helsingør, Denmark. IMAPS Nordic, 2015. p. 175-179.  
Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific

**The role of film processing in the large-area dielectric breakdown performance of nano-silica-BOPP films.** / Rytöluoto, Ilkka ; Lahti, Kari ; Ritamäki, Mikael; Karttunen, Mikko.  
24th Nordic Insulation Symposium on Materials, Components and Diagnostics (NORD-IS), Proceedings. Copenhagen, Denmark, 2015. (Proceedings of the Nordic Insulation Symposium; No. 24).  
Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

**The role of product retailers' service adoption in services introduction - A case of services supplementing consumer durables.** / Nenonen, Sanna; Vaittinen, Eija.  
The 14th International Research Symposium on Service Excellence in Management: QUIS14. ed. / Xiande Zhao; Jie J. Zhang; Hyun Jeong Han. Shanghai, 2015. p. 762-771.

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

**The target reliability of the eurocodes.** / Poutanen, Tuomo.

Safety, Robustness and Condition Assessment of Structures. International Association for Bridge and Structural Engineering (IABSE), 2015. p. 202-208 (IABSE Symposium Report).

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

**The World Innovation Stock Exchange- shared value for individuals, business and society.** / Markopoulos, Evangelos; Vanharanta, Hannu.

6th International Conference on Applied Human Factors and Ergonomics (AHFE 2015) and the Affiliated Conferences, AHFE 2015. Elsevier, 2015. p. 595-602 (Procedia Manufacturing; Vol. 3).

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

**Towards Business Potential of Workplace Services in Finland.** / Jylhä, Tuuli; Vuolle, Maiju; Nenonen, Suvi; Virtaneva, Mikko.

8th Nordic Conference on Construction Economics and Organization: May 28-29 2015, Tampere, Finland. Vol. 21 Elsevier, 2015. p. 518-523 (Procedia Economics and Finance).

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

**Towards Capturing Interaction in the Interactive Use of Controls - The Role of Reflection.** / Suomala, Petri ; Hilden, Sannaleena.

8th conference on performance measurement and management control, Nice, France, September 30 October 2, 2015. 2015. (Conference on performance measurement and management control).

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

**Towards high power flip-chip long-wavelength semiconductor disk lasers.** / Rantamäki, Antti; Saarinen, Esa; Lyytikäinen, Jari; Heikkinen, Juuso; Lahtonen, Kimmo; Valden, Mika; Okhotnikov, Oleg.

Proceedings of SPIE. Vol. 9349 SPIE, 2015.

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

**Towards Traditional Simulation Models of Context Using Process Mining.** / Pileggi, Paolo; Rivero-Rodriguez, Alejandro; Nykänen, Ossi.

Computational Intelligence, Communication Systems and Networks (CICSyN), 2015 7th International Conference on. IEEE, 2015. p. 70-75.

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

**Townhouse-talotyypin rakennuskustannukset: kolmen suunnitteluratkaisun taloudellisuuden analysointi.** / Saari, Arto; Tauriainen, Matti.

Nollaa parempi – Townhouse energiatehokkaassa asuinrakentamisessa. Aalto-yliopisto, 2015. p. 94-97 (Aalto University publication series Crossover; No. 9/2015).

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

**Traceability of essential climate variables through forest stand reconstruction with terrestrial laser scanning.** / Calders, Kim; Disney, Mathias; Nightingale, Joanne; Origo, Niall; Barker, Alexandra; Raunonen, Pasi Antero; Lewis, Philip; Burt, Andrew; Brennan, James; Fox, Nigel.

Proceedings of SilviLaser 2015: 14th conference on Lidar Applications for Assessing and Managing Forest Ecosystems. 2015. p. 122-124.

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

**Triboelectric charging of fungal spores during resuspension and rebound.** / Kuuluvainen, Heino; Saari, Sampo; Mensah-Attipoe, J.; Pasanen, Pertti; Reponen, T.; Keskinen, Jorma.

EAC 2015, European Aerosol Conference, 6-11 September, 2015, Milan, Italy. 2015.

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

**Tunable nonlinear effects through focused spatially phase-shaped beams.** / Turquet, L.; Bautista, G.; Karvonen, L.; Dhaka, V.; Chen, Y.; Jiang, H.; Huhtio, T.; Lipsanen, H.; Kauranen, M.

European Quantum Electronics Conference 2015. Optical Society of America, 2015. EG\_P\_11.

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

**Tunable second-harmonic generation in a single nanostructure.** / Turquet, Leo; Bautista, Godofredo; Kakko, Joonas-Pekko; Karvonen, Lasse; Dhaka, Veer; Chen, Ya; Jiang, Hua; Huhtio, Teppo; Lipsanen, Harri; Kauranen, Martti. The Eleventh Finland-Japan Joint Symposium on Optics in Engineering. 2015.

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

**Two models for hydraulic cylinder.** / Ylinen, Antti; Kouhia, Reijo; Mäkinen, Jari.

2nd International Conference on Multi-Scale Computational Methods for Solids and Fluids: ECCOMAS MSF 2015. ed. / Adnan Ibrahimbegović; N Ademović; E Ilić-Georgijević; A Serdarević; M Hrasnica; S Dolarević . Sarajevo, 2015. p. 115-116.

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

**Ulkoseinien rakennusfysikaaliset riskit ja pitkäaikaiskestävät ratkaisut.** / Salonen, Joonas; Laukkarinen, Anssi; Vinha, Juha

. Korjaa ja korota: Kerrostalojen korjaamisen ja lisäkerrosten rakentamisen ratkaisuja. ed. / Anu Soikkeli; Jouni Koiso-Kanttila; Laura Sorri. Vol. 62 Oulu, Finland : Oulun yliopisto, 2015. p. 74-81 (Oulun yliopisto, arkkitehtuurin osasto. A. Julkaisu).

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

**Using context overlays to analyse the role of a priori information with Process Mining.** / Pileggi, Paolo; Rivero Rodriguez, Alejandro; Nykänen, Ossi.

2015 IEEE International Systems Conference (SysCon 2015) Proceedings. Vancouver, BC, Canada : IEEE, 2015. p. 639-644.

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

**Uusia tuulia Euroopasta.** / Lehtovuori, Panu .

Asukkaan ehdoilla: moninaisuutta asumamuuotoihin. Helsinki : Rakennustieto Oy, 2015. p. 42-59.

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

**Uusi Rakennusfysiikan käsikirja.** / Vinha, Juha .

Sisäilmastoseminaari 2015. 2015. p. 167-172 (Sisäilmastoyhdistys raportti; No. 33).

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

**Varmuuden kohdentaminen geotekniikassa, miten Eurokoodeja voisi kehittää?** / Länsivaara, Tim.

Geotekniikan päivä 2015. SGY, 2015.

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

**Voimalaitosten reaaliaikainen ympäristövaikutusten monitorointi.** / Majanne, Yrjö; Korpela, Timo ; Judl, Jáchym; Koskela, Sirkka; Laukkanen, Ville; Häyrynen, Anna; Salminen, Olli.

Automaatio XXI seminaari. ed. / Sirkka-Liisa Jämsä-Jounela. Suomen Automaatioseura, 2015. p. 1-6 (SAS julkaisusarja; No. 44).

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

**Water services heritage and institutional diversity.** / Katko, Tapio S.; Juuti, Petri ; Pietilä, Pekka; Rajala, Riikka .

Water and Heritage: material, conceptual and spiritual connections. ed. / Willem Willems; Henk van Schaik. Sidestone Press, 2015.

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

**Wireless Authentication using OPACITY Protocol.** / Petrov, Vitaly; Bezzateev, Sergey; Zybin, Vladimir.

2015 7th International Congress on Ultra Modern Telecommunications and Control Systems and Workshops (ICUMT). IEEE, 2015. p. 253-258.

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

**Wood compression model for radial compression of earlywood and latewood.** / Moilanen, Carolina; Björkqvist, Tomas; Saarenrinne, Pentti.

Proceedings of the XII Finnish Mechanics Days. Rakenteiden Mekaniikan Seura ry, 2015. p. 261-266.  
Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific

**Winner-Does-Not-Take-All : Selective Attention and Local Bias in Platform-Based Markets.** / Huotari, Pontus; Järvi, Kati; Kortelainen, Samuli; Huhtamäki, Jukka.

Academy of Management Proceedings: Meeting Abstract Supplement. Academy of Management, 2015. (Academy of Management. Annual Meeting Proceedings).

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

**Testing the near field/far field model performance for prediction of particulate matter emissions in a paint factory.** /

Koivisto, A. J.; Jensen, A. C Ø; Levin, M.; Kling, K. I.; Maso, M. Dal; Nielsen, S. H.; Jensen, K. A.; Koponen, I. K.

In: Environmental Sciences: Processes and Impacts, Vol. 17, No. 1, 01.01.2015, p. 62-73.

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

**Coarse-grained model of protein interaction for bio-inspired nano-communication.** / Knyazev, S.; Tarakanov, S.; Kuznetsov, V.; Porozov, Yu; Koucheryavy, Y.; Stepanov, E.

2014 6th International Congress on Ultra Modern Telecommunications and Control Systems and Workshops (ICUMT). 2015. p. 260-262.

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

**The development curve of knowledge management practices: a ten year perspective from top50 Finnish enterprises.** /

Helander, Nina ; Väyrynen, Hannele ; Zhao, Xuepin; Kukko, Marianne .

15th Eurasia business and economics society conference: Lisbon, Portugal, January 8-10, 2015. Springer, 2015.

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

**Characteristics of Digital Hydraulics with Commercial Controllers.** / Huova, Mikko; Ahopelto, Miika ; Ketonen, Miikka; Ahola, Ville; Linjama, Matti; Huhtala, Kalevi .

The Seventh Workshop on Digital Fluid Power . Linz Center of Mechatronics, 2015. p. 114-128.

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

**Numerically Efficient Flow Model for On/Off Valves.** / Linjama, Matti; Siivonen, Lauri; Huova, Mikko .

Proceedings of the Seventh Workshop on Digital Fluid Power. ed. / Rudolf Scheidl; Bernd Winkler; Helmut Kogler. Linz, Austria : LCM GmbH, 2015. p. 164-172.

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

**Advanced coatings by novel high-kinetic thermal spray processes.** / Matikainen, Ville; Koivuluoto, Heli; Milanti, Andrea; Vuoristo, Petri.

In: Materia, Vol. 73, No. 1, 09.02.2015, p. 46-50.

Research output: Contribution to journal › Article › Professional

**LTE indoor MIMO performances field measurements.** / Nguyen-Thanh, Duc; Le-Tien, Thuong; Bui-Thu, Cao; Le-Thanh, Toi.

International Conference on Advanced Technologies for Communications. IEEE, 2015. p. 84-89.

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

**Riding for a fall in outsourced ISD: Transferring knowledge between onshore vendor and offshored unit.** / Alanne, Aki ; Pekkola, Samuli.

9th Global Sourcing Workshop 2015: La Thuile, Italy, February 18-21, 2015. 2015.

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

**Growth of Urban Peripheries with Reference to Inconsistent Spatial Planning Policies: South-east Amman as case study.** / Amr, Alia'a; Saad, Magdy .

In: European International Journal of Science and Technology, Vol. 4, No. 3, 3, 03.2015, p. 54-68.

Research output: Contribution to journal › Article › Scientific

**Uudet arkkitehtoniset ratkaisumallit muuttavat kampuksien ilmettä.** / Poutanen, Jenni; Peltoniemi, Sanna; Pihlajarinne, Noora.

Oppiva kampus: How to co-create campus?. ed. / Suvi Nenonen; Sami Kärnä; Juha-Matti Junnonen; Sari Tähtinen; Niclas Sandström. Tampere : Suomen Yliopistokiinteistöt Oy, 2015. p. 72-93.

Research output: Chapter in Book/Report/Conference proceeding > Chapter > Professional

**Generalized hyperbolic harmonic functions in the plane.** / Eriksson, Sirkka-Liisa; Orelma, Heikki; Vuojamo, Vesa.

Proceedings of the International Conference on Numerical Analysis and Applied Mathematics 2014 (ICNAAM-2014). Vol. 1648 American Institute of Physics Inc., 2015. 440007.

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

**Exploring effects of ecosystem clockspeed on product performance.** / Mäkinen, S.J.; Dedehayir, O.; Ortt, R.

IEEE International Conference on Industrial Engineering and Engineering Management. Vol. 2015-January IEEE COMPUTER SOCIETY PRESS, 2015. p. 1457-1461 7058880.

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

**Internet-of-things disrupting business ecosystems : A case in home automation.** / Mäkinen, S.J.

IEEM 2014: 2014 IEEE International Conference on Industrial Engineering and Engineering Management. IEEE COMPUTER SOCIETY PRESS, 2015. p. 1467-1470.

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

**Kosteus- ja mikrobivaurioiden laajuus kuntien rakennuksissa.** / Annala, Petri; Hellemaa, Matti; Suonketo, Jommi; Pentti, Matti.

Sisäilmastoseminaari 2015 SIY Raportti 33, Messukeskus, Helsinki 11.3.2015. ed. / Jorma Säteri; Mervi Ahola. Juva, 2015. p. 95-100 (SIY Raportti; Vol. 33).

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

**Tampereen matemaattisten aineiden aineenopettajakoulutus.** / Eriksson, Sirkka-Liisa; Haukkanen, Pentti; Hukka, Terttu I.; Lemmetyinen, Helge.

In: Lumat, Vol. 3, No. 6, 11.03.2015, p. 800-807.

Research output: Contribution to journal > Article > Professional

**Valtion tukemien homekorjaushankkeiden arviointi (HKPro 2).** / Marttila, Tero; Suonketo, Jommi; Kero, Paavo; Annala, Petri; Pentti, Matti.

Sisäilmastoseminaari 2015 SIY Raportti 33, Messukeskus, Helsinki 11.3.2015: Sisäilmastoseminaari. ed. / Jorma Säteri; Mervi Ahola. Vol. Sisäilmayhdistys raportti 33 Juva, 2015. p. 101-106.

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

**Valtion tukemien homekorjaushankkeiden arviointi -jatkotutkimus (HKPro 3).** / Annala, Petri; Marttila, Tero; Kero, Paavo; Suonketo, Jommi; Pentti, Matti.

Sisäilmastoseminaari 2015 SIY Raportti 33, Messukeskus, Helsinki 11.3.2015. ed. / Jorma Säteri; Mervi Ahola. Vol. Sisäilmayhdistys raportti 33 Juva, 2015. p. 107-112 (Sisäilmayhdistys).

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

**Composite Nonlinear Feedback Control of a Chemical Reactor.** / Pyrhönen, Veli-Pekka; Koivisto, Hannu .

Proceedings of AutomaatioXXI, The Industrial Revolution of Internet – From Intelligent Devices to Networked Intelligence. Helsinki, Finland : Suomen Automaatioseura ry, 2015. (SAS julkaisusarja; Vol. 44).

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

**Systematic approach to secure automation – coordinated voltage control use-case.** / Salmenperä, Mikko; Seppälä, Jari; Koivisto, Hannu; Lu, Shengye; Repo, Sami.

Proceedings of AutomaatioXXI, The Industrial Revolution of Internet – From Intelligent Devices to Networked Intelligence. Helsinki, Finland : Suomen Automaatioseura ry, 2015. (SAS Julkaisusarja; Vol. 44).

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

**Towards automation security research and training environment.** / Seppälä, Jari; Salmenperä, Mikko; Koivisto, Hannu; Harju, Jarmo; Repo, Sami; Holmström, John; Ahonen, Pasi.

Proceedings of Automaatio XXI, The Industrial Revolution of Internet – From Intelligent Devices to Networked Intelligence. Helsinki, Finland : Suomen Automaatioseura ry, 2015. (SAS Julkaisusarja; Vol. 44).

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

**Joustavat asuin ympäristöt : 10 visiota aikaa kestävään kaupunkiasumiseen.** / Kotilainen, Sini (Editor); Hedman, Markku (Editor); Heikkinen, Jonna (Editor).

Tampere : Tampereen teknillinen yliopisto. Arkkitehtuurin laitos, 2015. 268 p. (Housing Design).

Research output: Book/Report › Anthology › Professional

**Matkalla joustaviin asuin ympäristöihin.** / Kotilainen, Sini .

Joustavat asuin ympäristöt: 10 visiota aikaa kestävään kaupunkiasumiseen. Vol. 16 Tampere : Tampereen teknillinen yliopisto. Arkkitehtuurin laitos, 2015. p. 10-13 1 (Housing Design; Vol. 16).

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

**On improvement of transient stage of composite nonlinear feedback control using arbitrary order set point filters.** /

Pyrhönen, Veli-Pekka; Koivisto, Hannu.

2014 IEEE International Conference on Control System, Computing and Engineering (ICCSCE). Institute of Electrical and Electronics Engineers IEEE, 2015. p. 147 - 152 .

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

**Cancer research in the era of next-generation sequencing and big data calls for intelligent modeling.** / Yli-Hietanen, Jari; Ylipää, Antti; Yli-Harja, Olli.

In: Chinese Journal of Cancer, Vol. 34, No. 10, 12, 11.04.2015.

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

**Comparison of Sintering Methods and Conductive Adhesives for Interconnections in Inkjet-Printed Flexible Electronics.** / Niittynen, Juha.

Tampere University of Technology, 2015. 62 p. (Tampere University of Technology. Publication; Vol. 1291).

Research output: Book/Report › Doctoral thesis › Collection of Articles

**Hydraulic Hybrid Actuator: Theoretical Aspects and Solution Alternatives.** / Linjama, Matti ; Huova, Mikko ; Pietola, Matti; Juhala, Jyri; Huhtala, Kalevi .

Proceedings of the Fourteenth Scandinavian International Conference on Fluid Power. ed. / Arto Laamanen; Kalevi Huhtala; Janne Uusi-Heikkilä. Tampere : Tampere University of Technology, 2015.

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

**On the choice of damage variable in the continuum fatigue model based on a moving endurance surface.** / Saksala, Timo ; Holopainen, Sami ; Kouhia, Reijo .

Proceedings of the XII Finnish Mechanics Day. 2015. p. 57-62.

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

**Vehicle Mass Estimation for Hydraulic Drive System using Longitudinal Motion Model.** / Ahopelto, Miika ; Krogerus, Tomi ; Huhtala, Kalevi .

The Fourteenth Scandinavian International Conference on Fluid Power, SICFP15. Tampere University of Technology. Department of Intelligent Hydraulics and Automation, 2015. p. 433-442 (The Fourteenth Scandinavian International Conference on Fluid Power, SICFP15).

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

**Feasibility of electric buses in public transport.** / Vilppo, Olli; Markkula, Joni .

EVS28 28th International Electric Vehicle Symposium and Exhibition. 2015.

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

**Dynamics of rogue wave and soliton emergence in spontaneous modulation instability.** / Toenger, S.; Godin, T.; Billet, C.; Dias, F.; Erkintalo, M.; Genty, G.; Dudley, J. M.

CLEO: QELS - Fundamental Science, CLEO\_QELS 2015. Optical Society of America (OSA), 2015.

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

**Digital Hydraulics on Rails – Pilot Project of Improving Reliability on Railway Rolling Stock by Utilizing Digital Valve System.** / Fischer, Helmut; Laamanen, Arto; Iso-Heiko, Anssi; Schäfer, Oliver; Karvonen, Matti; Karhu, Otso; Huhtala, Kalevi; Pulkkinen, Veli-Pekka; Huttunen, Ali.

Proceedings of The Fourteenth Scandinavian International Conference on Fluid Power, SICFP15. ed. / Arto Laamanen; Kalevi Huhtala. 2015. p. 644-654.

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

**Fault Tolerance of Digital Hydraulics in High Dynamic Hydraulic System.** / Siivonen, Lauri ; Linjama, Matti ; Huova, Mikko ; Försterling, Heino; Stamm, Edgar; Deubel, Till.

The Fourteenth Scandinavian International Conference on Fluid Power. Vol. 1 1. ed. Tampere, Finland, 2015.

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

**Oppivan organisaation kehittäminen osaavaksi organisaatioksi. Tapaustutkimus suomalaisessa teollisuusyriyksessä.** / Hagman, Sirkka.

Tampere University of Technology, 2015. 209 p. (Tampere University of Technology. Publication; Vol. 1296).

Research output: Book/Report › Doctoral thesis › Monograph

**Microrobotic system for multi-rate measurement of bio-based fibres Z-directional bond strength.** / Latifi, Seyed Kourosh ; Saketi, Pooya; Kallio, Pasi .

In: Journal of Micro-Bio Robotics, Vol. 10, No. 1, 1, 24.05.2015, p. 13-26.

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

**Boundary Integral Operators in Linear and Second-order Nonlinear Nano-optics.** / Mäkitalo, Jouni.

Tampere University of Technology, 2015. 73 p. (Tampere University of Technology. Publication; Vol. 1297).

Research output: Book/Report › Doctoral thesis › Collection of Articles

**Brownfield Process : A Method for the Rationalisation of Existing Product Variety towards a Modular Product Family.** / Pakkanen, Jarkko.

Tampere University of Technology, 2015. 283 p. (Tampere University of Technology. Publication; Vol. 1299).

Research output: Book/Report › Doctoral thesis › Monograph

**On the Socio-Technical Dependencies in Free/Libre/Open Source Software Projects.** / Syeed, M M Mahbulul.

Tampere University of Technology, 2015. (Tampere University of Technology. Publication; Vol. 1300).

Research output: Book/Report › Doctoral thesis › Collection of Articles

**Decision making on sustainability in product development projects.** / Martinsuo, Miia; Arvio, Ilkka.

15th Annual Conference of EURAM European Academy of Management: EURAM 2015. Warsaw : European Academy of Management, EURAM, 2015.

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

**Dual-Mode Behavior in Multi-Section DFB Semiconductor Lasers with Laterally-Coupled Ridge-Waveguide Surface Gratings.** / Uusitalo, Topi; Virtanen, Heikki; Viheriälä, Jukka; Salmi, Joel Olavi; Aho, Antti; Dumitrescu, Mihail.

The European Conference on Lasers and Electro-Optics 2015. OSA - The Optical Society, 2015. CB\_P\_26.

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

**Education and Materials Joining Research methods at Tampere University of Technology.** / Peura, Pasi; Vuoristo, Petri; Vihinen, Jorma.

In: Hitsaustekniikka, Vol. 65, No. 2-3/2015, 06.2015, p. 73-76.

Research output: Contribution to journal › Article › Professional

**Enhancing the supplier's third-party relationships in construction projects.** / Sariola, Rami ; Martinsuo, Miia .

The Bartlett IRNOP 2015: International Research Network on Organizing by Projects Conference . IRNOP, 2015.

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

**Kangasalan Lamminrahka. Yhdyskuntasuunnittelun ammattikurssi 1 2015.** / Rajaniemi, Juho (Editor); Thureson, Jon (Editor); Chudoba, Minna (Editor).  
Tampere : Tampere University of Technology, School of Architecture, 2015. 92 p.  
Research output: Book/Report > Commissioned report > Professional

**Moving manufacturing back: a content-based literature review.** / Stentoft, Jan; Olhager, Jan; Heikkilä, Jussi; Thoms, Lisa.  
22nd EurOMA Conference: Operations management for sustainable competitiveness. Neuchatel, Switzerland, 2015.  
Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Professional

**Raudoitetun betonirakenteen taivutuksen mallintaminen Ansys-ohjelmalla.** / Pietilä, Jari; Mäkinen, Jari.  
Proceedings of the XII Finnish Mechanics Days. ed. / R Kouhia; J Mäkinen; S Pajunen; T Saksala. Helsinki : Rakenteiden Mekaniikan Seura ry, 2015. p. 91-96.  
Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific

**Remote monitoring systems as enablers for project-related services.** / Momeni, Khadijeh; Martinsuo, Miia.  
IRNOP 2015: International Research Network on Organizing by Projects Conference. IRNOP, 2015.  
Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Professional

**Are Finns walking the talk? : Examining the national collaboration process on engineering education for sustainable development five years later.** / Takala, Annina; Korhonen-Yrjänheikki, Kati.  
Conference on Engineering Education for Sustainable Development (7th : 2015 : Vancouver, B.C.). 2015.  
Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Professional

**Distributed power allocation over indoor multi-pico stations.** / Fei, Ze Song; Gao, Qiang; Fu, You; Isotalo, Tero; Niemelä, Jarno.  
In: Journal of the Beijing Institute of Technology, Vol. 24, No. 2, 01.06.2015, p. 227-232.  
Research output: Contribution to journal > Article > Scientific > peer-review

**An example of scenario-based evaluation of military capability areas An impact assessment of alternative systems on operations.** / Suojanen, Marko; Kuikka, Vesa; Nikkarila, Juha Pekka; Nurmi, Jari.  
9th Annual IEEE International Systems Conference, SysCon 2015 - Proceedings. The Institute of Electrical and Electronics Engineers, Inc., 2015. p. 601-607.  
Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific > peer-review

**Feasibility study of the THz band for communications between wearable electronics.** / Petrov, Vitaly.  
2015 17th Conference of Open Innovations Association (FRUCT), 20-24 April 2015, Yaroslavl. . IEEE, 2015. p. 157-162 (Conference of Open Innovations Association (FRUCT)).  
Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific > peer-review

**Performance comparison of selected wired and wireless networks on chip architectures.** / Komar, Maria.  
2015 17TH Conference of Open Innovations Association (FRUCT). 2015. p. 68-74 (Conference of Open Innovations Association (FRUCT)).  
Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific > peer-review

**Transpositions and duals high-order tensors. On theory and applications in mechanics.** / Holopainen, Sami.  
Proceedings of the XII Finnish Mechanics Days: Suomen XII mekaniikkapäivien esitelmät. ed. / Reijo Kouhia. Rakenteiden Mekaniikan Seura ry, 2015. p. 188-193 (Journal of Structural Mechanics).  
Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific

**Model-Driven Development of Control Applications : On Modeling Tools, Simulations and Safety.** / Vepsäläinen, Timo.  
Tampere University of Technology, 2015. 115 p. (Tampere University of Technology. Publication; Vol. 1303).  
Research output: Book/Report > Doctoral thesis > Collection of Articles

**The effects of neuron morphology on graph theoretic measures of network connectivity : The analysis of a two-level statistical model.** / Acimovic, Jugoslava; Mäki-Marttunen, Tuomo; Linne, Marja-Leena.  
In: Frontiers in Neuroanatomy, Vol. 9, No. June, 76, 10.06.2015.



**User experience in technology investment decisions of industrial firms.** / Sundberg, Hanna-Riikka ; Seppänen, Marko .  
22nd Innovation & Product Development Management Conference, IPDMC. Copenhagen : EIASM, 2015.

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

**Visual tools to support innovation development : User experiences from the Parisian ecosystem.** / Russell, Martha G.; Still, Kaisa; Huhtamäki, Jukka Viljami.

Proceedings of the International Forum on Knowledge Asset Dynamics, 10-12 June 2015, Bari, Italy: IKFAD 2015.  
Institute of Knowledge Asset Management & Arts for Business Institute, 2015.

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

**Distributors As Market Orientation Agents in Innovation Development and Commercialization.** / Aarikka-Stenroos, Leena; Talvitie, Miika.

The Proceedings of the XXVI ISPIM Conference 2015 Budapest, Hungary . Denmark : International Society for Professional Innovation Management ISPIM, 2015.

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

**Examining Innovation Barriers along Innovation Process in Multi-Industry Hygiene-Technology Network.** / Mäkitalo-Keinonen, Tiina ; Aarikka-Stenroos, Leena.

The Proceedings of the XXVI ISPIM Conference 2015 Budapest, Hungary . Denmark : International Society for Professional Innovation Management ISPIM, 2015.

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

**Meeting radical change: SMEs and innovation capabilities and strategic foresight.** / Aramo-Immonen, Heli ; Bessant, John; Heinonen, Tarja; Öberg, Christina; Trifilova, Anna.

The Proceedings of the XXVI ISPIM Conference – Shaping the Frontiers of Innovation Management, Budapest, Hungary on 14-17 June 2015. International Society for Professional Innovation Management ISPIM, 2015.

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

**Second-harmonic generation from thermally-evaporated indium selenide thin films.** / Slablab, A.; Divya, S.; Koskinen, K.; Czaplicki, R.; Kailasnath, M.; Radhakrishnan, P.; Kauranen, M.

The European Conference on Lasers and Electro-Optics 2015: Munich Germany 21–25 June 2015. Optical Society of America, 2015. p. CE\_12\_4.

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

**High power GaInNAs VECSEL emitting at 1230/615 nm.** / Penttinen, Jussi-Pekka; Leinonen, Tomi; Korpijärvi, Ville-Markus ; Kantola, Emmi; Guina, Mircea.

The European Conference on Lasers and Electro-Optics 2015. OSA, 2015.

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

**High repetition rate 1.34  $\mu\text{m}$  Nd:YVO<sub>4</sub> microchip laser Q-switched with GaInNAs SESAM.** / Nikkinen, Jari; Korpijärvi, Ville-Markus; Leino, Iiro; Härkönen, Antti; Guina, Mircea.

The European Conference on Lasers and Electro-Optics 2015. OSA, 2015. CA\_5b\_1.

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

**Impact of Axial Profile of the Gain Medium on the Mode Instability in Lasers : Regular Versus Tapered Fibers.** / Filippov, Valery; Ustimchik, V.E.; Chamorovskiy, Yuri; Golant, Konstantin; Vorotynskii, Andrei; Okhotnikov, Oleg.

The European Conference on Lasers and Electro-Optics 2015. OSA, 2015. CJ-10.5.

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

**Single-mode 1180 nm GaInNAs/GaAs DBR laser diode for frequency doubling to 590 nm : paper CB\_11\_4.** / Korpijärvi, Ville-Markus; Viheriälä, Jukka; Aho, Antti; Guina, Mircea.

2015 European Conference on Lasers and Electro-Optics - European Quantum Electronics Conference. OSA, 2015.

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

**Blind estimation of speckle variance in synthetic aperture radar images.** / Abramova, V. V.; Kozhemiakin, R.; Abramov, S. K.; Lukin, V. V.; Zelensky, A. A.; Egiazarian, K.

2015 International Conference on Antenna Theory and Techniques: Dedicated to 95 Year Jubilee of Prof. Yakov S. Shifrin, ICATT 2015 - Proceedings. The Institute of Electrical and Electronics Engineers, Inc., 2015.

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

**Experimental study of bispectrum-based encoding in radio communication system.** / Naumenko, V. V.; Solodovnik, V. F.; Totsky, A. V.; Zelensky, A. A.; Astola, J. T.

2015 International Conference on Antenna Theory and Techniques: Dedicated to 95 Year Jubilee of Prof. Yakov S. Shifrin, ICATT 2015 - Proceedings. The Institute of Electrical and Electronics Engineers, Inc., 2015.

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

**Studies of Physical Phase State of Aerosol Nanoparticles.** / Saukko, Erka.

Tampere University of Technology, 2015. 51 p. (Tampere University of Technology. Publication; Vol. 1308).

Research output: Book/Report › Doctoral thesis › Collection of Articles

**E-learning of ethics, awareness, hacking and research by information security majors.** / Koskinen, Jukka Antero.

Proceedings of SEFI Annual Conferences. European Society for Engineering Education SEFI, 2015.

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

**Network archetypes in the network formation phase - case new market entry of Finnish maritime network.** / Suominen, Anu; Breite, Rainer .

22nd International Annual EurOMA Conference Neuchâtel, Switzerland 28 June – 1 July 2015. 2015.

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

**Accessible Games for Blind Children, Empowered by Binaural Sound.** / Drossos, Konstantinos; Zormpas, Nikolaos; Giannakopoulos, George; Floros, Andreas.

Proceedings of the 8th ACM International Conference on Pervasive Technologies Related to Assistive Environments. New York, NY, USA : Association for Computing Machinery (ACM), 2015. p. 5:1-5:8 (PETRA '15).

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

**Evaluating the electrode measurement sensitivity of subdermal electroencephalography electrodes.** / Mendes, Miguel Rodrigues; Subramaniam, Narayan Puthanmadam; Wendel-Mitoraj, Katrina.

International IEEE/EMBS Conference on Neural Engineering, NER. Vol. 2015-July IEEE COMPUTER SOCIETY PRESS, 2015. p. 1092-1095.

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

**On the threshold based neuronal spike detection, and an objective criterion for setting the threshold.** / Tanskanen, Jarno M. A.; Kapucu, Fikret E.; Hyttinen, Jari A. K.

International IEEE/EMBS Conference on Neural Engineering, NER. IEEE COMPUTER SOCIETY PRESS, 2015. p. 1016-1019.

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

**Recurrence network analysis of wide band oscillations of local field potentials from the primary motor cortex reveals rich dynamics.** / Subramaniam, Narayan Puthanmadam; Hyttinen, Jari; Hatsopoulos, Nicholas G.; Takahashi, Kazutaka.

International IEEE/EMBS Conference on Neural Engineering, NER. IEEE COMPUTER SOCIETY PRESS, 2015. p. 960-963.

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

**Vision-based path coordination for multiple mobile robots with four steering wheels using an overhead camera.** / Ziaei, Z.; Oftadeh, R.; Mattila, J.

IEEE International Conference on Advanced Intelligent Mechatronics (AIM), 2015. 2015. p. 261-268.

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

**Enablers and barriers of inter-organizational network's formation for new market entry: case Finnish maritime industry.** / Suominen, Anu.

31st EGOS Colloquium, General Theme, Organizations and the Examined Life: Reason, Reflexivity and Responsibility, July 2–4, 2015 Athens, Greece. SAGE Publications, 2015. (Organization Studies).

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

**Learning maths with mobiles : Cross-cultural design of technology with experiences in South-Africa and Finland.** / Vainio, Teija; Walsh, Tanja.

Integrating Touch-Enabled and Mobile Devices into Contemporary Mathematics Education. IGI Global, 2015. p. 79-96.

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

**Data-Driven Approach for Analysis of Performance Indices in Mobile Work Machines.** / Väyrynen, Teemu; Peltokangas, Suvi; Anttila, Eero; Vilkkö, Matti.

DATA ANALYTICS 2015, The Fourth International Conference on Data Analytics. ed. / Thomas Klemas; Steve Chan.

2015. p. 81-86.

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

**Microrobotic platform with integrated force sensing microgrippers for characterization of fibrous materials: Case study on individual paper fibers.** / Saketi, Pooya.

Tampere : Tampere University of Technology, 2015. 116 p. (Tampere University of Technology. Publication; Vol. 1309).

Research output: Book/Report › Doctoral thesis › Monograph

**Customized service solutions for project business.** / Martinsuo, Miia; Momeni, Khadijeh.

23rd Nordic Academy of Management Conference 2015. Nordic Academy of Management, 2015.

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

**Defining product end-of-life strategies in new product development.** / Martinsuo, Miia; Sukanen, Ilmari; Kivilä, Jesse .

23rd Nordic Academy of Management Conference NFF 2015- Business in society: NFF 2015. Nordic Academy of Management, 2015.

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

**Knowledge Management operationalization – how it differs in large enterprises and SMEs in Finland.** / Väyrynen, Hannele ; Helander, Nina .

23rd Nordic Academy of Management Conference: NFF 2015. Nordic Academy of Management, 2015. p. 1-27.

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

**Project control toward lifecycle value at the front end of delivery projects.** / Martinsuo, Miia ; Vuorinen, Lauri .

23rd Nordic Academy of Management Conference : NFF 2015. Nordic Academy of Management, 2015.

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

**Identifying critical technology actors in waste flow management.** / Peltola, Tero; Mäkinen, Saku.

PICMET'15 Conference, Management of the Technology Age: August 2-6, 2015, Hilton Portland and Executive Tower, Portland, Oregon, USA. United States : Portland International Center for Management of Engineering and Technology, 2015. p. 2027-2031.

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

**Towards a Classification Schema for Development Technologies: an Empirical Study in the Avionic Domain.** / Taibi, Davide; Lenarduzzi, Valentina; Dieudonne, Laurent; Plociennik, Christiane.

In: INTERNATIONAL JOURNAL ON ADVANCES IN SOFTWARE, Vol. 8, No. 1&2, 01.08.2015, p. 125-135.

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

**The Role of Customer Experience in Value Creation in Business-to-Business Context.** / Väyrynen, Hannele ; Vasell, Tytti; Helander, Nina ; Boedeker, Mika; Andersson, Tuula .

23rd Nordic Academy of Management Conference: NFF 2015. Nordic Academy of Management, 2015. p. 146 24.02.

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

**Lasitettujen parvekkeiden ja terassien käyttäytyminen tulipaloissa.** / Hilliaho, Kimmo; Hietaniemi, Jukka; Visa, Panu.

In: Palontorjuntatekniikka, No. Erikoisnumero, 24.08.2015, p. 18-23.

Research output: Contribution to journal › Article › Professional

**Developing commercialization plans through stakeholder interaction: Patterns identified from Public-Private Innovation Projects.** / Höjbjerg Clarke, Ann; Rostgaard Evald, Majbritt; Aarikka-Stenroos, Leena.

The 31st Annual IMP Conference and Doctoral Colloquium 2015, Kolding, Denmark.. ed. / Per Vagn Freytag; Ann Höjbjerg Clarke. 2015.

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

**Initiation processes and initiation contributors illustrated by Norwegian-South Korean business relationships.** / Aarikka-Stenroos, Leena; Aaboen, Lise; Rolfsen, Aron .

The 31st Annual IMP Conference 2015, Kolding, Denmark.. ed. / Per Vagn Freytag; Ann Höjbjerg Clarke. Kolding, Denmark, 2015.

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

**Institutionalizing a service innovation in complex networks: The case of developing and diffusing electronic prescription in Finland.** / Jaakkola, Elina; Aarikka-Stenroos, Leena; Salmivalli, Lauri.

The 31st Annual IMP Conference and Doctoral Colloquium 2015, Kolding, Denmark.. ed. / Per Vagn Freytag; Ann Höjbjerg Clarke. 2015.

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

**Älykäs kaupunkilogistiikka – CityLog.** / Nykänen, Lasse; Kallionpää, Erika ; Liimatainen, Heikki.

Tampereen teknillinen yliopisto. Liikenteen tutkimuskeskus Verne., 2015. 20 p. (Tampereen teknillinen yliopisto. Liikenteen tutkimuskeskus Verne. Tutkimusraportti).

Research output: Book/Report › Commissioned report › Professional

**Augmenting Technology Trees: Automation and Tool Support.** / Heinimäki, Teemu J.; Elomaa, Tapio.

Proceedings of the Seventh International Conference on Virtual Worlds and Games for Serious Applications (VS-Games 2015). IEEE, 2015. p. 68-75.

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

**Effects of surface cracks and strain rate on the tensile behavior of Balmoral Red granite.** / Mardoukhi, Ahmad; Hokka, Mikko ; Kuokkala, Veli-Tapani.

11th International Conference on the Mechanical and Physical Behaviour of Materials Under Dynamic Loading. EDP Sciences, 2015. 02007.

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

**Exhaust Particles and NOx Emission Factors of a Modern Heavy Duty Truck equipped with the SCR in Real-world Driving Conditions.** / Saari, Sampo; Karjalainen, Panu; Pirjola, Liisa; Ntziachristos, Leonidas; Keskinen, Jorma; Rönkkö, Topi.

EAC 2015, European Aerosol Conference, 6-11 September, 2015, Milan, Italy. 2015.

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

**Generation of Characteristic Traffic Emission Aerosol in Particulate Filter Collection Efficiency Tests.** / Saari, Sampo; Karjalainen, Panu; Kalliohaka, Tapio; Taipale, Aimo; Rönkkö, Topi.

EAC 2015, European Aerosol Conference, 6-11 September, 2015, Milan, Italy. 2015.

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

**How to support managers' commitment to safety management and leadership in organizations: good practices from the managers' viewpoint.** / Tappura, Sari; Nenonen, Noora ; Kivistö-Rahnasto, Jouni .

WOS 8th international conference - Book of Abstracts . 2015.

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

**Personal constructs concerning safety and atmosphere.** / Porkka, Pasi ; Laukkanen, Ilkka ; Kivistö-Rahnasto, Jouni .

WOS 8th international conference - Book of Abstracts . 2015.

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

**Standardizing the service delivery system for repetitive industrial services.** / Poikonen, Elina; Martinsuo, Miia; Nenonen, Sanna .

RESER 2015: 25th Annual RESER Conference. RESER European Association for Research on Services, 2015.  
Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific

**Two-turns antenna and magnetic materials for effective powering of mm-size implant in wireless brain-machine interface system.** / Khan, Waqas; Björninen, Toni; Ukkonen, Leena; Sydänheimo, Lauri.

2015 IEEE MTT-S 2015 International Microwave Workshop Series on RF and Wireless Technologies for Biomedical and Healthcare Applications (IMWS-BIO). IEEE, 2015. p. 103-104.

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

**Use of equipment lifecycle data in industrial services.** / Ocaña Flores, Moramay; Martinsuo, Miia .

RESER 2015: 25th Annual RESER Conference. Copenhagen : RESER European Association for Research on Services, 2015.

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

**1800-luvun Helsingin kadonneiden konserttitilojen akustiikan mallintaminen.** / Niemi, Henry; Kylliäinen, Mikko; Jäppinen, Jere; Lindqvist, Mikko.

Akustiikkapäivät 2015. Kuopio, 2015. p. 77-82 (Akustiikkapäivät).

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

**Asuinhuoneistojen betonivälipohjien askelääneneristyksen subjektiivinen ja objektiivinen arviointi.** / Kylliäinen, Mikko ; Oliva, David; Rekola, Laura; Hongisto, Valtteri.

Akustiikkapäivät 2015. Kuopio : Akustinen seura, 2015. p. 204-207 (Akustiikkapäivät).

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

**Engelin teatterin huoneakustiikan mallintaminen.** / Kylliäinen, Mikko ; Niemi, Henry; Jäppinen, Jere; Lindqvist, Mikko.

Akustiikkapäivät 2015. Akustinen seura, 2015. p. 145-150 (Akustiikkapäivät).

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

**Ilmaääneneristysluku sekä standardisoitu ja normalisoitu äänitasoeroluku huoneistojen välisen ilmaääneneristävyyden kuvaajina.** / Kylliäinen, Mikko ; Takala, Joose; Hongisto, Valtteri.

Akustiikkapäivät 2015. Kuopio : Akustinen seura, 2015. p. 158-161 (Akustiikkapäivät).

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

**Mykkäelokuvakauden elokuvateatterien huoneakustiikka.** / Saarelainen, Janne; Kylliäinen, Mikko; Hupaniittu, Outi.

Akustiikkapäivät 2015. Kuopio : Akustinen seura, 2015. p. 83-88 (Akustiikkapäivät).

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

**Risk Assessment of Major Storm Situation in Distribution System.** / Dehghani, Nemath; Supponen, Antti; Repo, Sami.

2015 50th International Universities Power Engineering Conference (UPEC). IEEE, 2015.

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

**Coopetition and company performance.** / Helander, Nina ; Vesalainen, Jukka; Juha, Puskala.

IMP 2015 Conference. 2015.

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

**Hard Rock (- ei Hallelujah, vaan) Tribology : Pohjoismainen kaivosteollisuuden kulumisongelmiin keskittyvä kurssi ja seminaari Tampereella.** / Valtonen, Kati; Tiainen, Tuomo.

In: Materia, Vol. 2015, No. 1, 02.09.2015, p. 30-33.

Research output: Contribution to journal › Article › Professional

**Knowledge Management and Emerging Collaborative Networks in Tourism Business Ecosystems.** / Ammirato, Salvatore; Michele Felicetti, Alberto; Della Gala, Marco; Aramo-Immonen, Heli ; Jussila, Jari.

Proceedings of the 16th European Conference on Knowledge Management (ECKM 2015), University of Udine, Italy, 3-4 September 2015. ed. / Maurizio Massaro; Andrea Garlatti. Reading, UK : Academic Conferences and Publishing International Limited, 2015. p. 19-26.

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

**Abstracting Application Development for Resource Constrained Wireless Sensor Networks.** / Laukkarinen, Teemu.  
Tampere : Tampere University of Technology, 2015. 104 p. (Tampere University of Technology. Publication; Vol. 1306).  
Research output: Book/Report > Doctoral thesis > Collection of Articles

**Detection and Assessment of Sleep-Disordered Breathing with Special Interest of Prolonged Partial Obstruction.** / Tenhunen, Mirja.  
Tampere : Tampere University of Technology, 2015. 77 p. (Tampere University of Technology. Publication; Vol. 1304).  
Research output: Book/Report > Doctoral thesis > Collection of Articles

**Environment Interpretation for Business Continuity in a Project Supplier's Networks – Critical Factors in International Industrial Upgrades.** / Halinoja, Markku.  
Tampere : Tampere University of Technology, 2015. 237 p. (Tampere University of Technology. Publication; Vol. 1313).  
Research output: Book/Report > Doctoral thesis > Monograph

**Effects of subsampling on characteristics of RNA-seq data from triple-negative breast cancer patients.** / Stupnikov, Alexey; Glazko, Galina V.; Emmert-Streib, Frank.  
In: Chinese Journal of Cancer, Vol. 34, No. 10, 08.09.2015.  
Research output: Contribution to journal > Article > Scientific > peer-review

**Modelling new particle formation and growth using combined power law and log-normal distribution model.** / Olin, Miska; Dal Maso, Miikka.  
EAC 2015, European Aerosol Conference. Milan, Italy : Italian Aerosol Society, 2015.  
Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Professional

**Compensation of PV generator output power fluctuations with energy storage systems.** / Schnabel, Julius; Valkealahti, Seppo.  
31st European Photovoltaic Solar Energy Conference and Exhibition (31st EU PVSEC), 14– 18 September, 2015, Hamburg, Germany. 2015. p. 2177-2181.  
Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific > peer-review

**Recognition of shading events caused by moving clouds and determination of shadow velocity from solar radiation measurements.** / Lappalainen, Kari; Valkealahti, Seppo.  
31st European Photovoltaic Solar Energy Conference and Exhibition (31st EU PVSEC), 14– 18 September, 2015, Hamburg, Germany . 2015. p. 1568-1573.  
Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific > peer-review

**Building new computational models to support health behavior change and maintenance : new opportunities in behavioral research.** / Spruijt-Metz, Donna; Hekler, Eric; Saranummi, Niilo; Intille, Stephen; Korhonen, Ilkka; Nilsen, Wendy; Rivera, Daniel E.; Spring, Bonnie; Michie, Susan; Asch, David A.; Sanna, Alberto; Salcedo, Vicente Traver; Kukakfa, Rita; Pavel, Misha.  
In: Translational Behavioral Medicine, Vol. 5, No. 3, 17.09.2015, p. 335-346.  
Research output: Contribution to journal > Article > Scientific > peer-review

**Protective Spinel Coatings for Solid Oxide Fuel Cell Interconnectors by Thermal Spray Processes : From Conventional Dry Powder to Novel Solution Precursor Thermal Spraying.** / Puranen, Jouni.  
Tampere : Tampere University of Technology, 2015. 81 p. (Tampere University of Technology. Publication; Vol. 1322).  
Research output: Book/Report > Doctoral thesis > Collection of Articles

**Circularly Polarized Textile Antenna For 2.45 GHz.** / Rizwan, Muhammad; Rahmat-Samii, Yahya; Ukkonen, Leena.  
Circularly Polarized Textile Antenna For 2.45 GHz. IEEE, 2015. p. 51-52.  
Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific > peer-review

**The 13th Nordic Steel Construction Conference (NSCC.2015).** / Heinisuo, Markku (Editor); Mäkinen, Jari (Editor).  
Tampere : Tampere University of Technology, 2015.  
Research output: Book/Report > Anthology > Scientific > peer-review

**Benchmarking of Factory Level ESD Control.** / Viheriäkoski, Toni; Kohtamäki, Jari; Peltoniemi, Terttu; Tamminen, Pasi.  
Electrical Overstress/Electrostatic Discharge Symposium Proceedings 2015. Vol. 2015 USA : IEEE COMPUTER SOC, 2015. 6B.1.

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

**ESD and Disturbance Cases in Electrostatic Protected Areas.** / Tamminen, Pasi; Viheriäkoski, Toni; Ukkonen, Leena; Sydänheimo, Lauri.  
Electrical Overstress / Electrostatic Discharge Symposium Proceedings 2015. Vol. 2015 USA : IEEE COMPUTER SOC, 2015. 5B.2.

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

**The effect of USB ground cable and product dynamic capacitance on IEC61000-4-2 qualification.** / Tamminen, Pasi; Ukkonen, Leena; Sydänheimo, Lauri.  
Electrical Overstress / Electrostatic Discharge Symposium Proceedings 2015. Vol. 2015 USA : IEEE COMPUTER SOC, 2015. 7B.2.

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

**Uncertainties in Charge Measurements of ESD Risk Assessment.** / Viheriäkoski, Toni; Kohtamäki, Jari; Peltoniemi, Terttu; Tamminen, Pasi.  
Electrical Overstress / Electrostatic Discharge Symposium Proceedings 2015. Vol. 2015 USA : IEEE COMPUTER SOC, 2015. 6B.3.

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

**Development of a Low-Cost Fuzzy Gain Schedule Neutralization Control System.** / Sislian, Rodrigo; Da Silva, Flavio Vasconcelos; Gedraite, Rubens; Jokinen, Heikki; An, Dhanesh Kattippambal Raj.  
WCECS 2015 - World Congress on Engineering and Computer Science 2015. Vol. II Newswood Limited, 2015. p. 575-578 (Lecture Notes in Engineering and Computer Science; Vol. 2220).

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

**Direct Laser Writing of Fluorescent Silver Nanoclusters in Polyvinyl Alcohol Films.** / Karimi, Nazanin; Kunwar, Puskal; Toivonen, Juha.  
Frontiers in Optics 2015: Proceedings. 2015. FTu5E.4.

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

**Generation of characteristic traffic emission aerosol in particulate filter collection efficiency tests.** / Saari, Sampo; Karjalainen, Panu; Kalliohaka, Tapio; Taipale, Aimo; Rönkkö, Topi.  
The 11th International Conference on Industrial Ventilation, Shanghai, China. 2015.

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

**Ilmastonmuutoksen vaikutus betonijulkisivujen vaurioitumisen etenemiseen.** / Pakkala, Toni ; Lemberg, Antti-Matti; Köliö, Arto; Lahdensivu, Jukka .  
Rakennusfysiikka 2015: Uusimmat tutkimustulokset ja hyvät käytännön ratkaisut, 20.-22.10.2015, Tampere. ed. / Juha Vinha; Tiina Ruuska. Tampere : Tampereen teknillinen yliopisto, rakennustekniikan laitos, rakennetekniikka, 2015. p. 203-210.

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

**Kolloidisten suspensioiden online -analysointi: tutkimuksesta liiketoimintaa.** / Järveläinen, Matti ; Yli-Hallila, Teemu; Salpavaara, Timo; Verho, Jarmo; Viikko, Matti; Levänen, Erkki.  
In: Materia, No. 5/2015, 10.2015, p. 54-57.

Research output: Contribution to journal › Article › Professional

**Suomen keraaminen seura - Keramiska sällskapet i Finland.** / Frankberg, Erkki Juhani.  
In: Materia, Vol. 5, 10.2015, p. 58-58.

Research output: Contribution to journal › Article › Professional

**A NLOS-robust TOA positioning filter based on a skew-t measurement noise model.** / Nurminen, Henri; Ardeshiri, Tohid; Piche, Robert; Gustafsson, Fredrik.

2015 International Conference on Indoor Positioning and Indoor Navigation (IPIN). IEEE, 2015. p. 1-7.

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

**Clean Components of Fluid Power System Reduce Maintenance Costs.** / Rinkinen, Jari ; Elo, Lauri.

Maintenance, Condition Monitoring and Diagnostics; Maintenance Performance Measurement and Management: MCMD 2015 and MPMM 2015. 2015. 2 (2015-10-01).

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

**Muuttuvat ajotilanteet aiheuttavat uudentyyppisiä ajoneuvojen hiukaspäästöjä.** / Karjalainen, Panu.

In: Ympäristö ja terveys, Vol. 46, No. 6, 12.10.2015, p. 28-31.

Research output: Contribution to journal › Article › Professional

**Enterprise architecture as strategy, practice, or approach.** / Pekkola, Samuli.

4th Innovation in Information Infrastructures (III) Workshop. Warwick, UK : University of Warwick, 2015.

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

**By64 Tuulettuvat julkisivut 2016 -suunnittelu- ja toteusohjeen laadinta.** / Annala, Petri; Lahdensivu, Jukka; Pikkuvirta, Jussa ; Pakkala, Toni.

Rakennusfysiikka 2015. Uusimmat tutkimustulokset ja hyvät käytännön ratkaisut. 20.-22.10.2015, Tampere. ed. / Juha Vinha; Tiina Ruuska. Tampere : Tampereen teknillinen yliopisto, rakennustekniikan laitos, rakennetekniikka, 2015. p. 109-114.

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

**Energiatohokkuus rakennusalan ammattityövoiman täydennyskoulutuksessa.** / Teriö, Olli; Sorri, Jaakko.

Rakennusfysiikka 2015. Uusimmat tutkimustulokset ja hyvät käytännön ratkaisut. 20.-22.10.2015, Tampere. ed. / Juha Vinha; Tiina Ruuska. Tampere : Tampereen teknillinen yliopisto, rakennustekniikan laitos, rakennetekniikka, 2015. p. 97-102.

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

**Hometalolle suoritettavat toimenpiteet ja niiden valinta - case-esimerkki.** / Kankkunen, Tuukka; Kero, Paavo.

Rakennusfysiikka 2015. Uusimmat tutkimustulokset ja hyvät käytännön ratkaisut. 20.-22.10.2015, Tampere. ed. / Juha Vinha; Tiina Ruuska. Tampere : Tampereen teknillinen yliopisto, rakennustekniikan laitos, rakennetekniikka, 2015. p. 265-270.

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

**Kapillaaristen vedenimuominaisuuksien määrittämiseen sopivan vapaan vedenimukoelaitteiston kehittäminen.** /

Tuominen, Eero; Vinha, Juha.

Rakennusfysiikka 2015. Uusimmat tutkimustulokset ja hyvät käytännön ratkaisut. 20.-22.10.2015, Tampere. ed. / Juha Vinha; Tiina Ruuska. Tampere : Tampereen teknillinen yliopisto, rakennustekniikan laitos, rakennetekniikka, 2015. p. 233-238.

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

**Koko Julkisivua peittävän lasijulkisivun vaikutus Etelä-Ruotsissa sijaitsevan rakennuksen energiatohokkuuteen.** / Hilliaho, Kimmo ; Nordquist, Birgitta; Wallentén, Petter.

Rakennusfysiikka 2015. Uusimmat tutkimustulokset ja hyvät käytännön ratkaisut. 20.-22.10.2015, Tampere. ed. / Juha Vinha; Tiina Ruuska. Tampere : Tampereen teknillinen yliopisto, rakennustekniikan laitos, rakennetekniikka, 2015. p. 509-516 (Rakennustekniikan laitos. Rakennetekniikka. Seminaarijulkaisu 4; No. 4).

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

**Laastien vedenimukertoimen määrittämisen virhelähdekokeet.** / Tuominen, Eero; Vinha, Juha.

Rakennusfysiikka 2015. Uusimmat tutkimustulokset ja hyvät käytännön ratkaisut. 20.-22.10.2015, Tampere. ed. / Juha Vinha; Tiina Ruuska. Tampere : Tampereen teknillinen yliopisto, rakennustekniikan laitos, rakennetekniikka, 2015. p. 239-244.

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



**Laastin ja betonin lämmönjohtavuuden ja ominaislämpökapasiteetin määrittäminen lämpövirtalevyllä.** / Ruuska, Tiina ; Vinha, Juha.

Rakennusfysiikka 2015. Uusimmat tutkimustulokset ja hyvät käytännön ratkaisut. 20.-22.10.2015, Tampere. ed. / Juha Vinha; Tiina Ruuska. Tampere : Tampereen teknillinen yliopisto, rakennustekniikan laitos, rakennetekniikka, 2015. p. 227-232.

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

**Lasitetun parvekkeen lämpötilan ja lämpöhäviöiden laskenta.** / Laukkarinen, Anssi ; Hilliaho, Kimmo .

Rakennusfysiikka 2015. Uusimmat tutkimustulokset ja hyvät käytännön ratkaisut. 20.-22.10.2015, Tampere. ed. / Juha Vinha; Tiina Ruuska. Tampereen teknillinen yliopisto, rakennustekniikan laitos, rakennetekniikka, 2015. p. 181-186 (Rakennustekniikan laitos. Rakennetekniikka. Seminaarijulkaisu; No. 4).

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

**Onnistumistekijät valtion tukemissa homekorjaushankkeissa.** / Marttila, Tero ; Suonketo, Jommi ; Kero, Paavo ; Annala, Petri .

Rakennusfysiikka 2015: Uusimmat tutkimustulokset ja hyvät käytännön ratkaisut, 20-22.10.2015, Tampere. ed. / Juha Vinha; Tiina Ruuska. Vol. 4 Tampere : Tampereen teknillinen yliopisto, rakennustekniikan laitos, rakennetekniikka, 2015. p. 253-258 152.

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

**Pystytäänkö haitallisia ilmanvaihtovikoja havaitsemaan ja poistamaan.** / Heljo, Juhani; Kauppinen, Timo.

Rakennusfysiikka 2015. Uusimmat tutkimustulokset ja hyvät käytännön ratkaisut. 20.-22.10.2015, Tampere. ed. / Juha Vinha; Tiina Ruuska. Tampere : Tampereen teknillinen yliopisto, rakennustekniikan laitos, rakennetekniikka, 2015. p. 325-330.

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

**Raudotteiden korroosionopeuden määrittäminen betonijulkisivussa korkean aikaresoluution säädätin avulla.** / Köliö, Arto ; Hohti, Harri; Pakkala, Toni ; Laukkarinen, Anssi; Lahdensivu, Jukka; Mattila, Jussi .

Rakennusfysiikka 2015. Uusimmat tutkimustulokset ja hyvät käytännön ratkaisut. 20.-22.10.2015, Tampere.. Tampereen teknillinen yliopisto, rakennustekniikan laitos, rakennetekniikka, 2015. p. 195-202 (Rakennustekniikan laitos. Rakennetekniikka. Seminaarijulkaisu; No. 4).

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

**Uudessa COMBI-hankkeessa tutkitaan energiatehokkaan palvelurakentamisen haasteita ja ratkaisuja.** / Vinha, Juha ; Hedman, Markku; Sirén, Kai; Harsia, Pirkko; Pentti, Matti; Teriö, Olli ; Heljo, Juhani; Laukkarinen, Anssi ; Annala, Petri; Kaasalainen, Hannu ; Jokisalo, Juha; Pihlajamaa, Pirkko.

Rakennusfysiikka 2015. Uusimmat tutkimustulokset ja hyvät käytännön ratkaisut. 20.-22.10.2015, Tampere.. ed. / Juha Vinha; Tiina Ruuska. Tampereen teknillinen yliopisto, rakennustekniikan laitos, rakennetekniikka, 2015. p. 487-496 (Rakennustekniikan laitos. Rakennetekniikka. Seminaarijulkaisu; No. 4).

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

**Uusi Rakennusfysiikan käsikirja - perustiedot rakennusfysikaalisesta suunnittelusta ja tutkimuksista.** / Vinha, Juha.

Rakennusfysiikka 2015. Uusimmat tutkimustulokset ja hyvät käytännön ratkaisut. 20.-22.10.2015, Tampere. ed. / Juha Vinha; Tiina Ruuska. Tampere : Tampereen teknillinen yliopisto, rakennustekniikan laitos, rakennetekniikka, 2015. p. 115-120.

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

**ÄKK-hankkeen suositukset tulevaisuuden ääneneristysmääräyksiä koskien.** / Hongisto, Valtteri; Kylliäinen, Mikko ; Hyönä, Jukka.

Rakennusfysiikka 2015. Tampere : Tampereen teknillinen yliopisto, rakennustekniikan laitos, rakennetekniikka, 2015. p. 561-566.

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

**Menetelmä parvekelasien ääneneristävyyden mittaamiseksi liikennemelualueilla.** / Kovalainen, Ville; Kylliäinen, Mikko.

Rakennusfysiikka 2015. Tampereen teknillinen yliopisto, rakennustekniikan laitos, rakennetekniikka, 2015. p. 617-622.

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

**Puurunkoisten tuuletettujen yläpohjien kosteustekninen toiminta.** / Junttila, Hannanoora; Laukkarinen, Anssi ; Vinha, Juha .  
Rakennusfysiikka 2015. Uusimmat tutkimustulokset ja hyvät käytännön ratkaisut. 20.-22.10.2015, Tampere.. ed. / Juha Vinha; Tiina Ruuska. Tampere : Tampereen teknillinen yliopisto, rakennustekniikan laitos, rakennetekniikka, 2015. p. 77-82 (Rakennustekniikan laitos. Rakennetekniikka. Seminaarijulkaisu; No. 4).  
Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific

**Puuvälipohjien akustiset ominaisuudet.** / Latvanne, Pekka; Kylliäinen, Mikko.  
Rakennusfysiikka 2015. Tampereen teknillinen yliopisto, rakennustekniikan laitos, rakennetekniikka, 2015. p. 567-572.  
Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific

**Value Creation in Private Equity : A Case Study of Outperforming Buyouts in the Nordic Countries.** / Hannus, Simon .  
Tampere University of Technology, 2015. 180 p. (Tampere University of Technology. Publication; Vol. 1328).  
Research output: Book/Report > Doctoral thesis > Monograph

**Energy Retrofits in Multi-family Buildings in North-east Europe: The Impacts on Thermal Conditions.** / Du, Liuliu; Leivo, Virpi ; Prasauskas, Tadas ; Turunen, Mari; Kiviste, Mihkel; Martuzevicius, Dainius; Haverinen-Shaughnessy, Ulla.  
In: Energy Procedia, Vol. 78, 11.2015, p. 860-864.  
Research output: Contribution to journal > Article > Scientific > peer-review

**Fractional Ornstein-Uhlenbeck Processes.** / Kaarakka, Terhi.  
Tampere University of Technology, 2015. 102 p. (Tampere University of Technology. Publication; Vol. 1338).  
Research output: Book/Report > Doctoral thesis > Monograph

**Social Media in Business-to-Business Companies' Innovation.** / Jussila, Jari .  
Tampere University of Technology, 2015. 70 p. (Tampere University of Technology. Publication; Vol. 1333).  
Research output: Book/Report > Doctoral thesis > Collection of Articles

**Markov Chain Monte Carlo Estimation of Stochastic Volatility Models with Finite and Infinite Activity Lévy Jumps : Evidence for Efficient Models and Algorithms.** / Yang, Hanxue.  
Tampere University of Technology, 2015. 107 p. (Tampere University of Technology. Publication; Vol. 1331).  
Research output: Book/Report > Doctoral thesis > Monograph

**MYSTERY SHOPPERS RECOGNISING KNOWLEDGE SHARING BARRIERS IN HIGHER EDUCATION.** / Tukiainen, Mika ; Helander, Nina ; Mäkinen, Marita.  
ICERI2015 Proceedings: 8th annual International Conference of Education, Research and Innovation Seville (Spain). 16th - 18th of November, 2015. . 2015.  
Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific > peer-review

**University Students' Perceptions of Academic Writing: An Academic Literacies Perspective.** / Tukiainen, Mika ; Mäkinen, Marita; Helander, Nina .  
ICERI2015 Proceedings: 8th annual International Conference of Education, Research and Innovation Seville (Spain). 16th - 18th of November, 2015.. 2015. p. 7589-7595.  
Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific > peer-review

**Organic Chromophores in Self-Assembled Monolayers and Supramolecular Arrays.** / Sariola-Leikas, Essi.  
Tampere University of Technology, 2015. 58 p. (Tampere University of Technology. Publication; Vol. 1334).  
Research output: Book/Report > Doctoral thesis > Collection of Articles

**What Engineering Scientists Know and How They Know It : Towards Understanding the Philosophy of Engineering Science in Finland.** / Naukkarinen, Johanna.  
Tampere University of Technology, 2015. 205 p. (Tampere University of Technology. Publication; Vol. 1344).  
Research output: Book/Report > Doctoral thesis > Monograph

**SimpleTree : An Efficient Open Source Tool to Build Tree Models from TLS Clouds.** / Hackenberg, Jan; Spiecker, Heinrich; Calders, Kim; Disney, Mathias; Raunonen, Pasi.

In: Forests: Open Access Journal, Vol. 6, No. 11, 23.11.2015, p. 4245-4294.

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

**Time-resolved characterization of primary and secondary particle emissions of a modern gasoline passenger car. /**

Karjalainen, P.; Timonen, H.; Saukko, E.; Kuuluvainen, H.; Saarikoski, S.; Aakko-Saksa, P.; Murtonen, T.; Dal Maso, M.; Ahlberg, E.; Svenningsson, B.; Brune, W. H.; Hillamo, R.; Keskinen, J.; Rönkkö, T.

In: Atmospheric Chemistry and Physics Discussions, Vol. 15, No. 22, 25.11.2015, p. 33253-33282.

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

**LTCC-Based Multi-Electrode Arrays for 3D in Vitro Cell Cultures. /** Bartsch, H.; Himmerlich, M.; Fischer, M.; Demko, L.; Hyttinen, J.; Schober, A.

In: Journal of Ceramic Science and Technology, Vol. 6, No. 4, 12.2015, p. 315-324.

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

**Preparation and antimicrobial characterization of silver-containing packaging materials for meat. /** Kuuliala, L.; Pippuri, T.; Hultman, J.; Auvinen, S.-M.; Kolppo, K.; Nieminen, T.; Karp, Matti; Björkroth, J.; Kuusipalo, J.; Jääskeläinen, E.

In: Food Packaging and Shelf Life, Vol. 6, 67, 01.12.2015, p. 53-60.

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

**Platform Competences to Enhance Network Effects in Business Ecosystems. /** Seppänen, Marko; Dedehayir, Ozgur; Still, Kaisa; Valkokari, Katri; Suominen, Arho.

2015 ISPIM Innovation Summit in Brisbane, Australia - 6-9 December 2015. International Society for Professional Innovation Management ISPIM, 2015.

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

**Bispectrum-based demodulation technique using triple-channel heterodyning of triplet-signal. /** Naumenko, V.; Solodovnik, V.; Totsky, A.; Zelensky, A.; Astola, J.

2015 Second International Scientific-Practical Conference Problems of Infocommunications Science and Technology (PIC S&T). IEEE, 2015. p. 224-226.

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

**HVS-based local analysis of denoising efficiency for DCT-based filters. /** Rubel, Oleksii; Ponomarenko, Nikolay; Lukin, Vladimir; Astola, Jaakko; Egiazarian, Karen.

2015 2nd International Scientific-Practical Conference Problems of Infocommunications Science and Technology, PIC S and T 2015 - Conference Proceedings. IEEE, 2015. p. 189-192.

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

**Method of data compression for traffic monitoring. /** Kozhemiakina, Nadejda; Lukin, Vladimir; Ponomarenko, Nikolay; Akulynichev, Artem; Astola, Jaakko; Egiazarian, Karen.

2015 2nd International Scientific-Practical Conference Problems of Infocommunications Science and Technology, PIC S and T 2015 - Conference Proceedings. IEEE, 2015. p. 153-156.

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

**Turvallisuuden johtajat - Esimiesten johtajuus, osaaminen ja sitoutuminen. /** Tappura, Sari; Hyytinen, Toni; Kivistö-Rahnasto, Jouni; Nenonen, Noora; Vasara, Juha.

Tampere: Tampereen teknillinen yliopisto; Tampereen yliopisto, 2015. 144 p.

Research output: Book/Report > Commissioned report > Professional

**A 1.5-W frequency doubled semiconductor disk laser tunable over 40 nm at around 745 nm. /** Saarinen, Esa J.; Lyytikäinen, Jari; Ranta, Sanna; Rantamäki, Antti; Saarela, Antti; Sirbu, Alexei; Iakovlev, Vladimir; Kapon, Eli; Okhotnikov, Oleg G.

Proceedings of SPIE: Vertical External Cavity Surface Emitting Lasers (VECSELs) VI. Vol. 9734 SPIE, 2016. 97340P-8 (Spie conference proceedings).

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

**Accurate depth estimation from a sequence of monocular images supported by proprioceptive sensors. /** Davidson, P.; Raunio, J. P.; Piché, R.

23rd Saint Petersburg International Conference on Integrated Navigation Systems, ICINS 2016 - Proceedings. State Research Center of the Russian Federation, 2016. p. 249-257.

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

**A continuum damage model for creep fracture and fatigue analyses.** / Kauppila, Petteri; Kouhia, Reijo; Ojanperä, Juha; Saksala, Timo; Sorjonen, Timo.

21st European Conference on Fracture, ECF21, 20-24 June 2016, Catania, Italy. 2016. p. 887-894 (Procedia Structural Integrity; Vol. 2).

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

**A follow-up case study of the relation of PLM Architecture, Maturity and Business processes.** / Vainio, Ville V.; Pulkkinen, Antti.

Product Lifecycle Management in the Era of Internet of Things: 12th IFIP WG 5.1 International Conference, PLM 2015, Doha, Qatar, October 19-21, 2015, Revised Selected Papers. Springer New York LLC, 2016. p. 867-873 (IFIP Advances in Information and Communication Technology; Vol. 467).

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

**Agile methods in performance management system development process.** / Stormi, Kati ; Laine, Teemu ; Korhonen, Tuomas .

10th Conference On New Directions In Management Accounting, Brussels, Belgium, December 14-16, 2016. 2016.

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

**A mixed-integer linear programming approach for global discrete size optimization of frame structures.** / Van Mellaert, R.; Mela, K.; Tiainen, T.; Heinisuo, M.; Lombaert, G.; Schevenels, M.

ECCOMAS Congress 2016 - Proceedings of the 7th European Congress on Computational Methods in Applied Sciences and Engineering: Crete; Greece; 5 June 2016 through 10 June 2016. Vol. 2 National Technical University of Athens, 2016. p. 3395-3408.

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

**Analysis of Real Mobility Records in Urban and Suburban Environments.** / Alexandru, Rusu Casandra; Lohan, Elena-Simona.

26TH DAAAM International Symposium on Intelligent Manufacturing and Automation. DAAAM International, 2016. p. 0688-0692.

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

**A new waveguiding mechanism based upon geometric phase.** / Alberucci, Alessandro; Pannian, Jisha C.; Slussarenko, Sergei; Piccirillo, Bruno; Santamato, Enrico; Marrucci, Lorenzo; Assanto, Gaetano.

Frontiers in Optics 2016. Optical Society of America (OSA), 2016. FF3H.3.

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

**A trial of yoking-proof protocol in RFID-based smart-home environment.** / Prudanov, Anton; Tkachev, Sergey; Golos, Nikolay; Masek, Pavel; Hosek, Jiri; Fujdiak, Radek; Zeman, Krystof; Ometov, Aleksandr; Bezzateev, Sergey; Voloshina, Natalia; Andreev, Sergey; Misurec, Jiri.

Distributed Computer and Communication Networks - 19th International Conference, DCCN 2016, Revised Selected Papers. Vol. 678 Springer Verlag, 2016. p. 25-34 (Communications in Computer and Information Science; Vol. 678).

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

**A unified lcf-hcf model based on continuum mechanics.** / Kouhia, Reijo; Holopainen, Sami ; Ottosen, Nils Saabye; Matti, Ristinmaa; Saksala, Timo .

2016. Paper presented at Nordic Seminar on Computational Mechanics, .

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

**Back-calculation of the Saint-Alban A test embankment with a new modelling approach in LEM.** / Lehtonen, V.; Länsivaara, T.

Proceedings of the The 17th Nordic Geotechnical Meeting, Reykjavik Iceland: 25th - 28th of May 2016. 2016. p. 691-699.

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

**Backend infrastructure supporting audio augmented reality and storytelling.** / Salo, Kari; Giova, Diana; Mikkonen, Tommi. Human Interface and the Management of Information: Applications and Services: 18th International Conference, HCI International 2016 Toronto, Canada, July 17-22, 2016. Proceedings, Part II. Springer Verlag, 2016. p. 325-335 (Lecture Notes in Computer Science; Vol. 9735).

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

**Benefits of digitally guided buying in B2B markets.** / Ojala, Mika ; Mahlamäki, Tommi .

25th annual IPSERA Conference: Dortmund, Sunday 20 March - Wednesday 23 March 2016. Dortmund, 2016.

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

**Building Codes and Demand Response of Energy Use.** / Sorri, Jaakko; Heljo, Juhani; Järventausta, Pertti; Honkapuro, Samuli; Harsia, Pirkko.

Proceedings of the CIB World Building Congress 2016: Volume IV: Understanding Impacts and Functioning of Different Solutions. ed. / Suvi Nenonen; Juha-Matti Junnonen. Vol. 4 Tampere University of Technology. Department of Civil Engineering, 2016. p. 8-21.

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

**Building energy retrofits, occupant health and wellbeing.** / Haverinen-Shaughnessy, Ulla; Pekkonen, Maria; Turunen, Mari ; Aaltonen, Anu ; Leivo, Virpi.

CIB World Building Congress 2016 Proceedings : Volume 2 Environmental Opportunities and challenges - Constructing commitment and acknowledging human experiences. ed. / Matthijs Prins; Hans Wamelink; Bob Giddings; Kihong Ku; Manon Feenstra. Vol. 2 Tampere University of Technology. Department of Civil Engineering, 2016. p. 679-687.

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

**Bus Transportation Accessibility - Does It Impact Housing Values?** / Kurvinen, Antti ; Sorri, Jaakko .

Proceedings of the CIB World Building Congress 2016: Understanding impacts and functioning of different solutions. ed. / Suvi Nenonen; Juha-Matti Junnonen. Vol. IV Tampere : Tampere University of Technology. Department of Civil Engineering, 2016. p. 321-331.

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

**Campus retrofitting (CARE) methodology: a way to co-create future learning environments.** / Nenonen, Suvi; Eriksson, Robert; Niemi, Olli; Junghans, Antje; Nielsen, Susanne Balslev; Lindahl, Göran.

Proceedings of the 20th CIB World Building Congress 2016: May 30-June 3, 2016, Tampere, Finland. 2016. p. 738-749.

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

**Characterising the industrial context of engineering change management.** / Pulkkinen, Antti; Huhtala, Petri; Leino, Simo-Pekka; Anttila, Juha Pekka; Vainio, Ville V.

Product Lifecycle Management in the Era of Internet of Things: 12th IFIP WG 5.1 International Conference, PLM 2015, Doha, Qatar, October 19-21, 2015, Revised Selected Papers. Springer New York LLC, 2016. p. 618-627 (IFIP Advances in Information and Communication Technology; Vol. 467).

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

**Commercialising reclaimed materials in earthworks – guidelines for productization and the process of appending these materials in the Finnish national code of practice.** / Koivisto, K.; Forsman, J.; Ronkainen, M.; Lahtinen, P.; Kolisoja, P.; Kuula, P.

Proceedings of the 17th Nordic Geotechnical Meeting Reykjavik Iceland: Challenges in Nordic Geotechnic 25th - 28th of May. Reykjavik : Icelandic Geotechnical Society, 2016.

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

**Computer-supported collaborative learning : Praxes in new cell-oriented configurable PC-classroom.** / Pyrhönen, Veli-Pekka; Seppälä, Jari; Salmenperä, Mikko.

SEFI conference 2016: Engineering Education on Top of the World: Industry University Cooperation. 2016.

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

**Computer vision aided navigation systems.** / Davidson, P.; Merkulova, I.

23rd Saint Petersburg International Conference on Integrated Navigation Systems, ICINS 2016 - Proceedings. State Research Center of the Russian Federation, 2016. p. 560-562.

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

**Consensus building in the pre-design phase of building projects.** / Keinänen, Marko ; Uotila, Ulrika ; Sorri, Jaakko ; Teriö, Olli ; Kähkönen, Kalle .

WBC16 Proceedings of the CIB World Building Congress 2016 Volume II : Environmental Opportunities and challenges, Constructing commitment and acknowledging human experiences. ed. / Matthijs Prins; Hans Wamelink; Bob Giddings; Kihong Ku; Manon Feenstra. Vol. Volume II Tampere University of Technology. Department of Civil Engineering, 2016. p. 561-572 (Tampere University of Technology. Department of Civil Engineering. Construction Management and Economics.).

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

**Control of Electric Vehicle Charging in Domestic Real Estates as Part of Demand Response Functionality.** / Rautiainen, Antti; Lummi, Kimmo; Järventausta, Pertti; Tikka, Ville; Lana, Andrey.

Cired Workshop 2016. 2016. 0240.

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

**Design and simulation of a thermal flow sensor for gravity-driven microfluidic applications.** / Mäki, Antti-Juhana; Kontunen, Anton; Ryyänänen, Tomi; Verho, Jarmo; Kreutzer, Joose; Lekkala, Jukka; Kallio, Pasi.

IEEE 11th Annual International Conference on Nano/Micro Engineered and Molecular Systems (NEMS). IEEE, 2016. p. 125-129.

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

**Development of students' multidisciplinary collaboration skills by simulation of the design process.** / Salmisto, Alpo; Keinänen, Marko; Kähkönen, Kalle.

Proceedings of the CIB World Building Congress 2016: Volume I - Creating built environments of new opportunities.. Vol. 1 2016. p. 348-360.

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

**DIC measurements of the human heart during cardiopulmonary bypass surgery.** / Hokka, Mikko; Mirow, Nikolas; Nagel, Horst; Vogt, Sebastian; Kuokkala, Veli-Tapani.

Conference Proceedings of the Society for Experimental Mechanics Series. Vol. 6 Springer New York LLC, 2016. p. 51-59.

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

**Different approaches of the PLM maturity concept and their use domains –analysis of the state of the art.** / Kärkkäinen, Hannu; Silventoinen, Anneli.

Product Lifecycle Management in the Era of Internet of Things: 12th IFIP WG 5.1 International Conference, PLM 2015, Doha, Qatar, October 19-21, 2015, Revised Selected Papers. Springer New York LLC, 2016. p. 89-102 (IFIP Advances in Information and Communication Technology; Vol. 467).

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

**Diffraction compensation of finite beams in hyperbolic metamaterials.** / Pannian, Jisha C.; Alberucci, Alessandro; Boardman, Allan; Assanto, Gaetano.

Laser science 2016. Optical Society of America (OSA), 2016. JW4A.10.

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

**Direct Measurement of Temporal Rogue Waves Generated by Spontaneous Modulation Instability.** / Narhi, Mikko; Wetzel, Benjamin; Billet, Cyril; Merolla, Jean-Marc; Toenger, Shanti; Sylvestre, Thibaut; Morandotti, Roberto; Dias, Frédéric; Genty, Goëry; Dudley, John M.

Frontiers in Optics 2016. Optical Society of America, 2016. FTu31.4 .

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

**Dots-on-the-fly electron beam lithography.** / Isotalo, Tero J.; Niemi, Tapio.

SPIE Proceedings: Alternative Lithographic Technologies VIII. ed. / Christopher Bencher. Vol. 9777 SPIE, 2016. 97771E (Proceedings of SPIE).

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

**Educating future coders with a holistic ICT curriculum and new learning solutions.** / Niemelä, Pia; Di Flora, Cristiano; Helevirta, Martti; Isomöttönen, Ville.

7th International Multi-Conference on Complexity, Informatics and Cybernetics, IMCIC 2016 and 7th International Conference on Society and Information Technologies, ICSIT 2016. Vol. 2 IIS, 2016. p. 132-136.

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

**Empowerment in construction: a qualitative analysis of subcontractors' quality assurance.** / Viita, Jussi; Junnonen, Juha-Matti.

Proceedings of the CIB World Building Congress 2016: Volume II - Environmental Opportunities and Challenges.

Constructing Commitment and Acknowledging Human Experiences. Tampere University of Technology. Department of Civil Engineering, 2016. p. 436-448.

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

**Enhancing old laboratory experiment using flipped learning : Towards self-regulating collaborative groups in blended learning environment.** / Pyrhönen, Veli-Pekka.

SEFI conference 2016: Engineering Education on Top of the World: Industry University Cooperation. 2016.

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

**Evolution equations based approach for modeling of fatigue in amorphous glassy polymers. On the investigation of fatigue damage development in polycarbonate.** / Holopainen, Sami.

Proc. of VII European Congress on Computational Methods in Applied Sciences and Engineering , ECCOMAS Congress 2016. : M. Papadrakakis, V. Papadopoulos, G. Stefanou, V. Plevris (eds.) . Crete Island, Greece, 5 – 10 June 2016. ed. / M. Papadrakakis; V. Papadopoulos; G. Stefanou; V. Plevris . 2016. p. 6675-6687.

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

**Extending Professional Fields. Architectural Research and Regional Development.** / Hynynen, Ari .

Proceedings of the CIB World Building Congress 2016.: Volume I - Creating built environments of new opportunities. ed. / Kalle Kähkönen; Marko Keinänen. Vol. I Tampere University of Technology. Department of Civil Engineering, 2016. p. 372-383.

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

**Fabrication and characterization of broadband superluminescent diodes for 2 µm wavelength.** / Zia, Nouman; Viheriälä, Jukka; Koskinen, Riku; Koskinen, Mervi; Suomalainen, Soile; Guina, Mircea.

Light-Emitting Diodes: Materials, Devices, and Applications for Solid State Lighting XX. SPIE, 2016. 97680Q (Proceedings of SPIE; Vol. 9768).

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

**Full-Field Temperature and Strain Measurement in Dynamic Tension Tests on SS 304.** / Smith, Jarrod; Kuokkala, Veli-Tapani; Seidt, Jeremy; Gilat, Amos.

Dynamic Behavior of Materials, Volume 1: Proceedings of the 2016 Annual Conference on Experimental and Applied Mechanics. Springer International Publishing, 2016. p. 37-44 (Conference proceedings of the Society for Experimental Mechanics).

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

**Functionalizing Surface Electrical Potential of Hydroxyapatite Coatings.** / Pluduma, Liene; Freimanis, Edijs; Gross, Karlis; Koivuluoto, Heli; Algate, Kent; Haynes, David; Vuoristo, Petri.

11th International Conference Medical Applications of Novel Biomaterials and Nanotechnology. Vol. 102 2016. p. 12-17 (Advances in Science and Technology; Vol. 102).

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

**Functional model for organisational and safety culture.** / Porkka, Pasi L.

Chemical Engineering Transactions. Italian Association of Chemical Engineering AIDIC, 2016. p. 907-912 (Chemical Engineering Transactions; Vol. 48).

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

**Future in wood? Timber construction in boosting local development.** / Hynynen, Ari .

In: European Spatial Research and Policy, Vol. 23, No. 1, 2016, p. 127-139.

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

**High Dynamic Range Single-Shot Spectral Measurements of Spontaneous Modulation Instability.** / Närhi, Mikko; Tengvall, M.; Toivonen, J.; Dudley, John M.; Genty, Goëry.  
Frontiers in Optics 2016. Optical Society of America (OSA), 2016. FF2B.1.  
Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific > peer-review

**High efficiency dilute nitride solar cells : Simulations meet experiments.** / Tukiainen, A.; Aho, A.; Polojärvi, V.; Ahorinta, R.; Guina, M.  
In: Journal of Green Engineering, Vol. 5, No. 3-4, 8, 2016, p. 113-132.  
Research output: Contribution to journal > Article > Scientific > peer-review

**High-power 1550 nm tapered DBR lasers fabricated using soft UV-nanoimprint lithography.** / Viheriälä, Jukka; Aho, Antti T.; Mäkelä, Jaakko; Salmi, Joel; Virtanen, Heikki; Leinonen, Tomi; Dumitrescu, Mihail; Guina, Mircea.  
High-Power Diode Laser Technology and Applications XIV. SPIE, 2016. 97330Q (SPIE Conference Proceedings; Vol. 9733).  
Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific > peer-review

**High-temperature sliding wear behaviour of thermally sprayed Cr<sub>3</sub>C<sub>2</sub>-based coatings.** / Matikainen, Ville; Bolelli, Giovanni; Koivuluoto, Heli; Sassatelli, Paolo; Lusvarghi, Luca; Vuoristo, Petri.  
Proceedings of The 17th Nordic Symposium on Tribology - NORDTRIB 2016. 2016.  
Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Professional

**How is it sustainable? Identifying key indicators for sustainable educational design.** / Sandström, N.; Hytti, V.; Nenonen, S.; Lonka, K.  
10th INTED 2016 Conference Proceedings: 7-9 March, 2016, Valencia, Spain. ed. / L. Gómez Chova; A. López Martínez; I. Candel Torres. 2016. p. 4217-4219 (INTED proceedings).  
Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific > peer-review

**How to benefit from learning logs in engineering education?** / Juuti, T.; Kopra, M. J.; Rättyä, Kaisu; Lehtonen, Timo.  
44th Annual Conference of the European Society for Engineering Education - Engineering Education on Top of the World: Industry-University Cooperation, SEFI 2016. European Society for Engineering Education SEFI, 2016.  
Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific > peer-review

**Identifying and measuring customer value - case multi-locational worker.** / Vasell, Tytti; Vuolle, Maiju; Petrulaitiene, Vitalija; Nenonen, Suvi; Jylhä, Tuuli.  
Research papers for EuroFM's 15th research symposium at EFMC2016: 8-9 June 2016 in Milan, Italy. ed. / Susanne Nielsen; Per Anker Jensen. EuroFM, 2016. p. 143-151.  
Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific > peer-review

**Improved properties for packaging materials by nanoscale surface modification and ALD barrier coating.** / Lahti, Johanna; Lavonen, Juho; Lahtinen, Kimmo; Johansson, Petri; Seppänen, Tarja; Cameron, David C.  
TAPPI International Conference on Nanotechnology for Renewable Materials 2016. Vol. 2 TAPPI Press, 2016. p. 684-706.  
Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific > peer-review

**Influence of environmental conditions on EMF levels in a span of overhead transmission lines.** / Okun, Oleksandr; Kravchenko, Yuri; Korpinen, Leena.  
In: Progress in Electromagnetics Research C, Vol. 63, 2016, p. 163-171.  
Research output: Contribution to journal > Article > Scientific > peer-review