

First principles prediction of the solar cell efficiency of chalcopyrite materials AgMX_2 (M=In, Al; X=S, Se, Te)

Dongho-Nguimdo, G. M., Igumbor, E., Zambou, S. & Joubert, D. P., 1 Dec 2019, In : Computational Condensed Matter. 21, e00391.

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

Clothing-Integrated Passive RFID Strain Sensor Platform for Body Movement-Based Controlling

He, H., Chen, X., Ukkonen, L. & Virkki, J., 7 Nov 2019, *2019 IEEE International Conference on RFID Technology and Applications (RFID-TA)*. IEEE, p. 236-239 4 p.

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

Glove-Integrated Textile Antenna with Reduced SAR for Wearable UHF RFID Reader

Ahmed, S., Mehmood, A., Sydänheimo, L., Ukkonen, L. & Björninen, T., 7 Nov 2019, *2019 IEEE International Conference on RFID Technology and Applications (RFID-TA)*. IEEE, p. 231-235 5 p.

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

High Peak Power Laser Diodes for Eye Safe LIDAR with Integrated Wavelength Locking Element

Viherialä, J., Aho, A. T., Virtanen, H., Reuna, J., Lyytikäinen, J. & Guina, M., 17 Oct 2019, *2019 Conference on Lasers and Electro-Optics Europe European Quantum Electronics Conference (CLEO/Europe-EQEC)*. IEEE

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

Automatization and stress analysis data of CoCr laser weld fatigue tests

Kanerva, M., Besharat, Z., Pärnänen, T., Jokinen, J., Honkanen, M., Sarlin, E., Göthelid, M. & Schlenzka, D., 1 Oct 2019, In : Data in Brief. 26, 104374.

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

DroneRF dataset: A dataset of drones for RF-based detection, classification and identification

Allahham, MHD. S., Al-Sa'd, M. F., Al-Ali, A., Mohamed, A., Khattab, T. & Erbad, A., 1 Oct 2019, In : Data in Brief. 26, 104313.

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

Teacher's Perceptions and Readiness to Teach Coding Skills: A Comparative Study Between Finland, Mainland China, Singapore, Taiwan, and South Korea

Wu, L., Looi, C. K., Multisilta, J., How, M. L., Choi, H., Hsu, T. C. & Tuomi, P., 30 Sep 2019, In : Asia-Pacific Education Researcher. 14 p.

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

Participatory service design and community involvement in designing future-ready sustainable learning landscapes

Sandström, N., Nevgi, A. & Nenonen, S., 2 Sep 2019, *SBE 19 - Emerging Concepts for Sustainable Built Environment 22-24 May 2019, Helsinki, Finland*. IOP Publishing, (IOP Conference Series: Earth and Environmental Science; vol. 297).

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

A Batteryless Semi-Passive RFID Sensor Platform

Ma, S., Pournoori, N., Sydänheimo, L., Ukkonen, L., Björninen, T. & Georgiadis, A., 1 Sep 2019, *2019 IEEE International Conference on RFID Technology and Applications (RFID-TA)*. IEEE, p. 171-173 3 p.

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

User-driven development with scientific applied research - RFID-controlled physiogame case study

Merilampi, S., Ihanakangas, V. & Virkki, J., 1 Sep 2019, *2019 IEEE International Conference on RFID Technology and Applications (RFID-TA)*. IEEE, p. 167-170 4 p.

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

Discovering collaborative and inclusive solutions to co-create multidimensional value in cross-sector collaboration

Vuori, V., Bor, S., Polsa, P., Käpylä, J. & Helander, N., Sep 2019, *Proceedings of the 11th International Joint Conference on Knowledge Discovery, Knowledge Engineering and Knowledge Management: 17-19 September, 2019, Vienna, Austria*.

SCITEPRESS, p. 364-369 6 p. (IC3K 2019 - Proceedings of the 11th International Joint Conference on Knowledge Discovery, Knowledge Engineering and Knowledge Management; vol. 3).

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

Research-industry collaboration: a review of the literature on evaluation methods and motivations

Solodko, A., Mäkinen, S., Lasheras, N. C., Bedolla, J. S. & Saari, U., 29 Aug 2019, *PICMET 2019 Conference: August 25-29, 2019, Portland, Oregon, USA*. Portland, 7 p. 19R0108

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

Enabling cybersecurity incident reporting and coordinated handling for maritime sector

Silverajan, B. & Vistiaho, P., 1 Aug 2019, *2019 14th Asia Joint Conference on Information Security, AsiaJCIS 2019*. IEEE, p. 88-95 8 p.

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

Visibility-Aware Part Coding for Vehicle Viewing Angle Estimation

Yang, D., Qian, Y., Cai, D., Yan, S., Kämäräinen, J-K. & Chen, K., 1 Aug 2019, *9th International Conference on Information Science and Technology, ICIST 2019*. IEEE, p. 65-70 6 p.

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

Profile extraction and deep autoencoder feature extraction for elevator fault detection

Mishra, K., Krogerus, T. & Huhtala, K., 28 Jul 2019, *16th International Conference on Signal Processing and Multimedia Applications: SIGMAP 2019, 26-28 July, 2019, Prague, Czech Republic*. Callegari, C. (ed.). 2019 ed. Prague, Czech Republic: SCITEPRESS, Vol. 16. p. 313-320 8 p.

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

Empirical study of good, bad and ugly modular engineering solutions in machinery manufacturing industry

Juuti, T., Pakkanen, J. & Lehtonen, T., 26 Jul 2019, *Proceedings of the Design Society: International Conference on Engineering Design: The 22nd International Conference on Engineering Design, ICED19, Delft, The Netherlands, 5-8 August 2019*. Cambridge University Press, p. 2981-2990 10 p. (Proceedings of the Design Society: International Conference on Engineering Design).

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

Actors' agency in the routines of innovation project portfolio management

Martinsuo, M. & Vuorinen, L., 26 Jun 2019, *Proceedings of the EURAM European Academy of Management Conference 2019: 26-28 June 2019, Lisbon, Portugal*. European Academy of Management, EURAM, 26 p. (EURAM conference).

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

Diffusion of innovation: Case of co-design of cabins in mobile work machine industry

Ellman, A. & Tainen, T., 1 Jun 2019, In : *Computers*. 8, 2, 39.

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

Knowledge management practices to overcome network-level knowledge barriers: an artificial intelligence powered literature review

Vuori, V. & Helander, N., Jun 2019, *Proceedings of International Forum on Knowledge Asset Dynamics 2019: 5-7 June 2019, Matera, Italy*. (IFKAD Proceedings eBooks).

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

Normalization of deviance in the construction industry, a managerial perspective

Hajikazemi, S., Ahola, T., Aaltonen, K., Aarseth, W. & Andersen, B., Jun 2019, *European Academy of Management Conference 2019, EURAM: 26-28 June, Lissabon, Portugal*. (European academy of management annual conference).

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

The circular economy of projects

Ahola, T. & Martinsuo, M., Jun 2019, *European Academy of Management Conference EURAM 2019: 26-28 June, Lisbon, Portugal*. (European academy of management annual conference).

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

Double-side pumped membrane external-cavity surface-emitting laser (MECSEL) with increased efficiency emitting > 3 W in the 780 nm region

Kahle, H., Phung, H-M., Penttinen, J-P., Rajala, P., Tukiainen, A., Ranta, S. & Guina, M., 1 May 2019, *2019 Conference on Lasers and Electro-Optics, CLEO 2019 - Proceedings*. IEEE

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

Frequency Comb Generation in a Continuous-Wave Pumped Second-Order Nonlinear Waveguide Resonator

Abdallah, Z., Stefszky, M., Ulvila, V., Silberhorn, C. & Vainio, M., 1 May 2019, *2019 Conference on Lasers and Electro-Optics, CLEO 2019 - Proceedings*. IEEE

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

High-Q resonance train in a plasmonic metasurface

Saad-Bin-Alam, M., Reshef, O., Huttunen, M. J., Carlow, G., Sullivan, B., Menard, J. M., Dolgaleva, K. & Boyd, R. W., 1 May 2019, *2019 Conference on Lasers and Electro-Optics, CLEO 2019 - Proceedings*. IEEE

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

Optical Frequency Comb Photoacoustic Spectroscopy

Sadiq, I., Mikkonen, T., Vainio, M., Toivonen, J. & Foltynowicz, A., 1 May 2019, *2019 Conference on Lasers and Electro-Optics, CLEO 2019 - Proceedings*. IEEE

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

A Semantic Meta-Model Repository for Lightweight M2M

Silverajan, B., Zhao, H. & Kamath, A., 11 Apr 2019, *2018 IEEE International Conference on Communication Systems, ICCS 2018*. IEEE, p. 468-472 5 p.

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

Muovipäällysteisten lattioiden vaurioituminen kosteuden vaikutuksesta

Leivo, V., Sarlin, E., Suonketo, J., Pikkuvirta, J. & Pentti, M., 14 Mar 2019, *Sisäilmastoseminaari 2019: 14.3.2019 : Sisäilmayhdistys raportti 37*. SIY SISÄILMATIETO OY, p. 383-388 6 p. (SIY Raportti; no. 37).

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

Large mode area double clad ytterbium tapered fiber with circular birefringency

Rissanen, J., Fedotov, A., Noronen, T., Gumenyuk, R., Chamorovskii, Y., Kolosovskii, A., Voloshin, V., Vorobev, I., Odnoblyudov, M. & Filippov, V., 7 Mar 2019, *Proceedings of SPIE : Fiber Lasers XVI: Technology and Systems*. Carter, A. L. & Dong, L. (eds.). SPIE-INT SOC OPTICAL ENGINEERING, 8 p. (Proceedings of SPIE; vol. 10897).

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

Analysis of upconversion nanoparticles as an active medium for upconversion light sources

Fedotov, A., Pominova, D., Orlovskaya, E., Orlovskii, Y., Niemi, T. & Gumenyuk, R., 1 Mar 2019, *Proceedings of SPIE: Optical Components and Materials XVI*. SPIE - International Society for Optical Engineering, Vol. 10914. 9 p. 109140R. (Proceedings of SPIE : the International Society for Optical Engineering; vol. 10914).

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

Accurate impedance model of grid-connected inverter for small-signal stability assessment in high-impedance grid

Messo, T., Roinila, T., Aapro, A. & Luhtala, R., 1 Feb 2019, (Accepted/In press) In : *IEEJ JOURNAL OF INDUSTRY APPLICATIONS*. 8, 3, 3.

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

1.3µm U-bend traveling wave SOA devices for high efficiency coupling to silicon photonics

Viherialä, J., Tuorila, H., Zia, N., Cherchi, M., Aalto, T. & Guina, M., 2019, *Silicon Photonics XIV*. Reed, G. T. & Knights, A. P. (eds.). SPIE, IEEE, 109230E. (Proceedings of SPIE - The International Society for Optical Engineering; vol. 10923).

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

1.55-µm wavelength wafer-fused OP-VECSELs in flip-chip configuration

Mereuta, A., Nechay, K., Caliman, A., Suruceanu, G., Gallo, P., Guina, M. & Kapon, E., 2019, *Vertical External Cavity Surface Emitting Lasers (VECSELs) IX*. Keller, U. (ed.). SPIE, IEEE, 1090103. (Proceedings of SPIE - The International Society for Optical Engineering; vol. 10901).

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

405-nm pumped Ce³⁺-doped silica fiber for broadband fluorescence from cyan to red

Yadav, A., Chichkov, N. B., Gumenyuk, R., Zherebtsov, E., Melkumov, M. A., Yashkov, M. V., Dianov, E. M. & Rafailov, E. U., 2019, *Optical Components and Materials XVI*. Digonnet, M. J. F. & Jiang, S. (eds.). SPIE, IEEE, 1091406. (Proceedings of SPIE - The International Society for Optical Engineering; vol. 10914).

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

Action and power efficiency in self-organization: The case for growth efficiency as a cellular objective in escherichia coli

Georgiev, G. Y., Aho, T., Kesseli, J., Yli-Harja, O. & Kauffman, S. A., 2019, *Evolution, Development and Complexity - Multiscale Evolutionary Models of Complex Adaptive Systems*. Flores Martinez, C. L., Georgiev, G. Y., Smart, J. M. & Price, M. E. (eds.). Springer, p. 229-244 16 p. (Springer Proceedings in Complexity).

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

A model for profiling information and knowledge management in the public sector

Jääskeläinen, A., Sillanpää, V. & Helander, N., 2019, *Proceedings of 14th IFKAD 2019 conference: Matera, Italy, 5-7 June*. (Proceedings IFKAD).

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

Benchmarking of several disparity estimation algorithms for light field processing

Zakeri, F. S., Bätz, M., Jaschke, T., Keinert, J. & Chuchvara, A., 2019, *Fourteenth International Conference on Quality Control by Artificial Vision*. Bazeille, S., Verrier, N. & Cudel, C. (eds.). SPIE, IEEE, 111721C. (Proceedings of SPIE - The International Society for Optical Engineering; vol. 11172).

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

Business intelligence process model revisited

Hellsten, P. & Myllärniemi, J., 2019, *IC3K 2019 - Proceedings of the 11th International Joint Conference on Knowledge Discovery, Knowledge Engineering and Knowledge Management*. Bernardino, J., Salgado, A. & Filipe, J. (eds.). SCITEPRESS, p. 341-348 8 p. (IC3K 2019 - Proceedings of the 11th International Joint Conference on Knowledge Discovery, Knowledge Engineering and Knowledge Management; vol. 3).

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

Challenges in developing data-based value creation

Myllärniemi, J., Helander, N. & Pekkola, S., 2019, *IC3K 2019 - Proceedings of the 11th International Joint Conference on Knowledge Discovery, Knowledge Engineering and Knowledge Management*. Bernardino, J., Salgado, A. & Filipe, J. (eds.). SCITEPRESS, p. 370-376 7 p. (IC3K 2019 - Proceedings of the 11th International Joint Conference on Knowledge Discovery, Knowledge Engineering and Knowledge Management; vol. 3).

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

Co-creating digital services for citizens: Activity theory analysis

Jussila, J., Kukkamäki, J. & Helander, N., 2019, *IC3K 2019 - Proceedings of the 11th International Joint Conference on Knowledge Discovery, Knowledge Engineering and Knowledge Management*. Bernardino, J., Salgado, A. & Filipe, J. (eds.). SCITEPRESS, p. 285-290 6 p. (IC3K 2019 - Proceedings of the 11th International Joint Conference on Knowledge Discovery, Knowledge Engineering and Knowledge Management; vol. 3).

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

Dynamics of value in technology inspired value co-creation: Case in homecare value network

Tiitola, V., Korhonen, T., Laine, T. & Lyly-Yrjänäinen, J., 2019, *14th IFKAD 2019 Proceedings: 5-7 June 2019, Matera, Italy*. IKAM Centro Studi & Ricerche, (PROCEEDINGS IFKAD).

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

Farm detection based on deep convolutional neural nets and semi-supervised green texture detection using VIS-NIR satellite image

Sharifzadeh, S., Tata, J. & Tan, B., 2019, *DATA 2019 - Proceedings of the 8th International Conference on Data Science, Technology and Applications*. Hammoudi, S., Quix, C. & Bernardino, J. (eds.). SCITEPRESS, p. 100-108 9 p.

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

From monolithic systems to microservices: A decomposition framework based on process mining

Taibi, D. & Systä, K., 2019, *CLOSER 2019 - Proceedings of the 9th International Conference on Cloud Computing and Services Science*. Ferguson, D., Munoz, V. M., Helfert, M. & Pahl, C. (eds.). SCITEPRESS, p. 153-164 12 p.

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

Mean and variability in RNA polymerase numbers are correlated to the mean but not the variability in size and composition of Escherichia coli cells

Almeida, B., Chauhan, V., Kandavalli, V. & Ribeiro, A., 2019, *BIOINFORMATICS 2019 - 10th International Conference on Bioinformatics Models, Methods and Algorithms, Proceedings; Part of 12th International Joint Conference on Biomedical Engineering Systems and Technologies, BIOSTEC 2019*. De Maria, E., Gamboa, H. & Fred, A. (eds.). SCITEPRESS, p. 226-233 8 p.

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

MECSELS with direct emission in the 760 nm to 810 nm spectral range: A single- and double-side pumping comparison and high-power continuous-wave operation

Kahle, H., Penttinen, J. P., Phung, H. M., Rajala, P., Tukiainen, A., Ranta, S. & Guina, M., 2019, *Vertical External Cavity Surface Emitting Lasers (VECSELS) IX*. Keller, U. (ed.). SPIE, IEEE, 109010D. (Proceedings of SPIE - The International Society for Optical Engineering; vol. 10901).

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

Modelling the stressed skin effect by using shell elements with meta-material model

Pajunen, S., Hautala, J. & Heinisuo, M., 2019, In : *Magazine of Civil Engineering*. 86, 2, p. 20-29 10 p.

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

Observation of local electroluminescent cooling and identifying the remaining challenges

Radevici, I., Sadi, T., Tripurari, T., Tiira, J., Ranta, S., Tukiainen, A., Guina, M. & Oksanen, J., 2019, *Photonic Heat Engines: Science and Applications*. Seletskiy, D. V., Epstein, R. I. & Sheik-Bahae, M. (eds.). SPIE, IEEE, 109360A. (Proceedings of SPIE - The International Society for Optical Engineering; vol. 10936).

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

Random lasing control with optical spatial solitons in nematic liquid crystals

Piccardi, A., Perumbilavil, S., Kauranen, M., Strangi, G. & Assanto, G., 2019, *PHOTOPTICS 2019 - Proceedings of the 7th International Conference on Photonics, Optics and Laser Technology*. Ribeiro, P., Raposo, M. & Andrews, D. (eds.). SCITEPRESS, p. 289-293 5 p.

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

Revisiting gray pixel for statistical illumination estimation

Qian, Y., Pertuz, S., Nikkanen, J., Kämäräinen, J.-K. & Matas, J., 2019, *VISIGRAPP 2019 - Proceedings of the 14th International Joint Conference on Computer Vision, Imaging and Computer Graphics Theory and Applications*. Kerren, A., Hurter, C. & Braz, J. (eds.). SCITEPRESS, p. 36-46 11 p.

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

Revisiting Social Media Tie Strength in the Era of Data Access Restrictions

Gupta, J., Kärkkäinen, H., Torro, O. & Mukkamala, R. R., 2019, *Proceedings of the 11th International Conference on Knowledge Management and Information Systems (KMIS 2019)*. SCITEPRESS, p. 187-194 8 p.

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

Single exposure lensless subpixel phase imaging

Kocsis, P., Shevkunov, I., Katkovnik, V. & Egjazarian, K., 2019, *Digital Optical Technologies 2019*. Kress, B. C. & Schelkens, P. (eds.). SPIE, IEEE, 9 p. (Proceedings of SPIE - The International Society for Optical Engineering; vol. 11062).

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

Smartphone teleoperation for self-balancing telepresence robots

Ainasoja, A. E., Pertuz, S. & Kämäräinen, J.-K., 2019, *VISIGRAPP 2019 - Proceedings of the 14th International Joint Conference on Computer Vision, Imaging and Computer Graphics Theory and Applications*. Kerren, A., Hurter, C. & Braz, J. (eds.). SCITEPRESS, p. 561-568 8 p.

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

Experimental moment resistance of rectangular hollow section T joints

Garifullin, M., 5 Dec 2018, In : MATEC Web of Conferences. 245, 08003.

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

Industrialization of hybrid and additive manufacturing-Implementation to Finnish industry (HYBRAM)

Riipinen, T., Kujanpää, V., Komi, E., Kilpeläinen, P., Savolainen, M., Puukko, P., Vihinen, J., Coatanea, E. & Mokhtarian, H., 26 Nov 2018, VTT Technical Research Centre of Finland. 66 p. (Research Reports)

Research output: Book/Report › Commissioned report › Professional

Performance Enhancement Of Optimized Link State Routing Protocol For Health Care Applications In Wireless Body Area Networks

Chetan Kumar, V., Shiva Prakash, S. P. & Balandin, S., Nov 2018, *2018 23rd Conference of Open Innovations Association (FRUCT)*. IEEE, p. 195-203 9 p.

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

Tutkimuskatsaus: Uusia menetelmiä haavan paranemisen arviointiin ja seurantaan

Kekonen, A., Bergelin, M. & Viik, J., 20 Oct 2018, In : HAAVA. 20, 3, p. 30-32 3 p.

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

The Effects of Product Line Length on Firm Performance

Kirjavainen, J., Mäkinen, S. & Sommarberg, M., 8 Oct 2018, *2018 Portland International Conference on Management of Engineering and Technology (PICMET)*. IEEE, 5 p.

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

Social capital characteristics in RD project networks

Majuri, M. & Lanz, M., 4 Oct 2018, *2018 Portland International Conference on Management of Engineering and Technology (PICMET)*. IEEE, 8481775

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

Technopreneurial Characteristics Rising from the Ashes of Creative Destruction

Sommarberg, M. & Mäkinen, S., 1 Oct 2018, *Proceedings in 2018 Portland International Conference in Management and Engineering (PICMET): (PICMET) 19-23 August 2018*. IEEE, p. 1-10 10 p.

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

Analysis of User Exploration Patterns during Scene Cuts in Omnidirectional Videos

Monakhov, D., Naik, D., Curcio, I. D. D. & Toukoma, H., Oct 2018, *SMPTE 2018*. SMPTE, 20 p.

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

Long-term monitoring of acute wound healing from beneath the primary wound dressings

Kekonen, A., Bergelin, M., Eriksson, J-E., Vesa, M., Johansson, M. & Viik, J., Oct 2018, *2018 16th Biennial Baltic Electronics Conference (BEC)*. IEEE, 4 p.

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

Glove-integrated slotted patch antenna for wearable UHF RFID reader

Ahmed, S., Musfequr Rehman, S. M., Ukkonen, L. & Björninen, T., 26 Sep 2018, *2018 IEEE International Conference on RFID Technology & Application (RFID-TA)*. IEEE, 4 p.

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

Referenced backscattering compression level indicator based on passive UHF RFID tags

Qureshi, S., Björninen, T. & Virkki, J., 26 Sep 2018, *2018 IEEE International Conference on RFID Technology & Application (RFID-TA)*. IEEE, 3 p.

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

RF energy harvesting system with RFID-enabled charge storage monitoring

Pournoori, N., Khan, W., Ukkonen, L. & Björninen, T., 26 Sep 2018, *2018 IEEE International Conference on RFID Technology & Application (RFID-TA)*. IEEE, 4 p.

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

Constrained Long-Horizon Direct Model Predictive Control for Synchronous Reluctance Motor Drives

Ortombina, L., Liegmann, E., Karamanakos, P., Tinazzi, F., Zigliotto, M. & Kennel, R., 10 Sep 2018, *2018 IEEE 19th Workshop on Control and Modeling for Power Electronics, COMPEL 2018*. IEEE, 8 p. 8460173

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

2D Video Coding of Volumetric Video Data

Schwarz, S., Hannuksela, M. M., Fakour-Sevom, V. & Sheikhi-Pour, N., 5 Sep 2018, *2018 Picture Coding Symposium, PCS 2018 - Proceedings*. IEEE, p. 61-65 5 p. 8456265

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

Evaluation of Median Root Prior for Robust In-Beam PET Reconstruction

Us, D., Brzezinski, K., Buitenhuis, T., Dendooven, P. & Ruotsalainen, U., 5 Sep 2018, In : *IEEE Transactions on Radiation and Plasma Medical Sciences*. 2, 5, p. 490-498 8 p.

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

Web User Interface Implementation Technologies: An Underview

Taivalsaari, A., Mikkonen, T., Systä, K. & Pautasso, C., 5 Sep 2018, *14th International Conference on Web Information Systems and Technologies*. SCITEPRESS, p. 127-136 10 p.

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

Fabrication and Practical Evaluation of Glove-integrated Passive UHF RFID Tags

Chen, X., He, H., Ukkonen, L., Virkki, J., Xu, J., Wang, T. & Cheng, L., Sep 2018, *2018 IEEE International Conference on RFID Technology Application (RFID-TA)*. IEEE, 5 p.

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

Multi-site delamination analysis using virtual crack closure technique for a composite aircraft wing flap

Jokinen, J., Kanerva, M. & Saarela, O., Sep 2018, *31st Congress of the International Council of the Aeronautical Sciences (Proceedings): Belo Horizonte, Brazil September 9-14, 2018*. ICAS Press

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

Nanocellulose as a Piezoelectric Material

Tuukkanen, S. & Rajala, S., 29 Aug 2018, *Piezoelectricity - Organic and Inorganic Materials and Applications*. InTech Open Access Publisher, p. 1-14 14 p.

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

Comparison of food frequency questionnaire data and shopping records for the assessment of food intake

Kallonen, A., Nieminen, H., Das, S. & Sallinen, R., 27 Aug 2018, *Proceedings of Seventh International Conference on Well-Being in the Information Society: Fighting Inequalities (WIS 2018)*. p. 25-30 (TUCS Lecture Notes; vol. 28).

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

Effect of radiation inside square hollow section under moderate non-symmetric fire

Bacziewicz, J., Pajunen, S. & Heinisuo, M., 27 Jul 2018, In : *Fire Research*. 2, 1, p. 25-30 6 p., 2:42.

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

Model-based cosimulation for industrial wireless networks

Geng, J., Li, H., Liu, Y., Liu, Y., Kashef, M., Candell, R. & Bhattacharyya, S. S., 3 Jul 2018, *WFCS 2018 - 2018 14th IEEE International Workshop on Factory Communication Systems*. IEEE, p. 1-10 10 p.

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

Improved modelling of electric loads for enabling demand response by applying physical and data-driven models: Project Response

Koponen, P., Hanninen, S., Mutanen, A., Koskela, J., Rautiainen, A., Järventausta, P., Niska, H., Kolehmainen, M. & Koivisto, H., 27 Jun 2018, *2018 IEEE International Energy Conference, ENERGYCON 2018*. IEEE, p. 1-6 6 p.
Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Moving toward integrated solutions in project-based firms: Changes in sales practices

Momeni, K. & Martinsuo, M., 21 Jun 2018, *Proceedings of EURAM18 European Academy of Management conference 2018*. European Academy of Management, EURAM, 30 p. (EURAM conference).
Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Systematic literature review on customer emotions in social media

Madhala, P., Jussila, J., Aramo-Immonen, H. & Suominen, A., 21 Jun 2018, *ECSM - Proceedings of the 5th European Conference on Social Media*. Cunnane, V. & Corcoran, N. (eds.). Limerick, Ireland, 10 p.
Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Fabrication and reliability evaluation of passive UHF RFID T-shirts

Chen, X., He, H., Ukkonen, L., Virkki, J., Lu, Y. & Lam, H., 8 Jun 2018, *2018 IEEE International Workshop on Antenna Technology, iWAT2018 - Proceedings*. IEEE, p. 1-4 4 p.
Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Education on the utilization of secondary materials in earthworks

Kuula, P., Leppänen, M., Kolisoja, P., Korkiala-Tanttu, L., Sorvari, J. & Gustavsson, H., 6 Jun 2018, *Proceedings of the 10th International Conference on the Environmental and Technical Implications of Construction with Alternative Materials: No Gradle no Grave Circular Economy into practice*. Lahtinen, P. & Raasakka, V. (eds.). RIL - Finnish Association of Civil Engineers, p. 177-187 11 p.
Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Technical suitability of the fine fraction of municipal solid waste incineration bottom ash to the landfill capping liner

Leppänen, M., Sarkkila, J., Hämäläinen, H. & Rinkinen, J., 6 Jun 2018, *Proceedings of the 10th International Conference on the Environmental and Technical Implications of Construction with Alternative Materials WASCON 2018: No Gradle, No Grave - Circular Economy into Practice*. Raasakka, V. & Lahtinen, P. (eds.). RIL - Finnish Association of Civil Engineers, p. 168-175
Research output: Chapter in Book/Report/Conference proceeding › Chapter › Scientific › peer-review

Dual-frequency signal processing architecture for robust and precise positioning applications

Bolla, P. & Lohan, E-S., 5 Jun 2018, *2018 IEEE/ION Position, Location and Navigation Symposium, PLANS 2018*. IEEE, p. 72-80 9 p.
Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Agency relationships in global project business

Ahola, T., Stähle, M. & Martinsuo, M., Jun 2018, *Proceedings of EURAM18 European Academy of Management conference 2018*. European Academy of Management, EURAM, 38 p. (EURAM conference).
Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Industrial customers' organizational readiness for service innovations: Adopting data-based advanced services

Martinsuo, M. & Vaittinen, E., Jun 2018, *Proceedings of the 25th Innovation and Product Development Management Conference*. European Institute for Advanced Studies in Management, EIASM, 17 p. (International Product Development Management Conference).
Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Intensity Interferometry of Supercontinuum Light

Toenger, S., Ahvenjärvi, J., Ryczkowski, P. & Genty, G., Jun 2018, *Trends in Electromagnetic Coherence*. Setälä, T., Turunen, J., T. Friberg, A. & Saastamoinen, K. (eds.). Joensuu: University of Eastern Finland, (Publications of the University of Eastern Finland. Reports and studies in forestry and natural sciences; no. 32).
Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific

Lifecycle-oriented framing of value at the front end of infrastructure projects

Martinsuo, M., Vuorinen, L., Killen, C. & Laiti, M., Jun 2018, *Proceedings of EURAM18 European Academy of Management conference 2018*. European Academy of Management, EURAM, 36 p. (EURAM conference).

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

Requirements from industrial internet for innovations in advanced industrial services

Martinsuo, M. & Laurila, F., Jun 2018, *Proceedings of the 25th Innovation and Product Development Management Conference*. European Institute for Advanced Studies in Management, EIASM, 16 p. (International Product Development Management Conference).

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

Toward Manageable Data Sources

Sillberg, P., Jun 2018, *EJC 2018: Proceedings of the 28th International Conference on Information Modelling and Knowledge Bases*. Endrjukaite, T., Kangassalo, H., Thalheim, B. & Kiyoki, Y. (eds.). Transport and Telecommunication Institute, p. 485-494

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

Re-use of engineering design rationale in Finnish SME project based industry

Ellman, A., Paronen, J., Juuti, T. S. & Tiainen, T., 24 May 2018, *Proceedings of the Design 2018 15th International Design Conference*. The Design Society, p. 1825-1832 8 p.

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

Finnish Round Robin Test on Airborne Sound Insulation

Lietzen, J. & Kylliäinen, M., May 2018, *Proceedings of the 11th European Congress and Exposition on Noise Control Engineering, Euronoise 2018, May 27-31 2018, Hersonissos, Crete, Greece: Reduce Noise to Improve Life*. Hersonissos, Crete, Greece: European Acoustic Association EAA, p. 1677-1682 6 p. 282.162. (European Congress and Exposition on Noise Control Engineering).

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

Measurements of impact force excitation on wooden floors

Lietzen, J., Miettinen, J., Kylliäinen, M. & Pajunen, S., May 2018, *Proceedings of the 11th European Congress and Exposition on Noise Control Engineering, Euronoise 2018, May 27-31 2018, Hersonissos, Crete, Greece: Reduce Noise to Improve Life, Crete, May 27-31, 2018*. Hersonissos, Crete, Greece: European Acoustic Association EAA, p. 1617-1622 6 p. 272.161. (Proceedings : European Conference on Noise Control).

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

Ready to sell? Requirements for promoting service selling in a manufacturing firm

Vaittinen, E. & Martinsuo, M., May 2018, *Proceedings of the Spring Servitization Conference, Driving Competitiveness through Servitization, 14-16 May 2018*. Bigdeli, A., Frandsen, T., Raja, J. & Baines, T. (eds.). Aston University, p. 26-34 9 p.

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

Ideoita kaavoituksen sisällön uudistamiseen: Kaavojen merkintöjen ja määräysten kehittäminen (KAMMI-hanke)

Jama, T., Lehtovuori, P., Rajaniemi, J., Siikonen, M., Mäntynen, J., Rantanen, A., Joutsiniemi, A., Koskela, K., Kärkinen, T., Saarikoski, P. & Saarniaho, K., 26 Jan 2018, Helsinki: Ympäristöministeriö. 74 p.

Research output: Book/Report › Commissioned report › Professional

Multiwavelength surface contouring from phase-coded diffraction patterns

Katkovnik, V., Shevkunov, I., Petrov, N. V. & Eguiazarian, K., 1 Jan 2018, *Unconventional Optical Imaging 2018. Strasbourg, France*. SPIE, Vol. 10677. 106771B. (Proceedings of SPIE - The International Society for Optical Engineering; vol. 10677).

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

Process time importance in the product properties evolvement during extrusion coating of different LDPE grades

Suokas, E. & Kuusipalo, J., 1 Jan 2018, *15th TAPPI Advanced Coating Fundamentals Symposium 2018: Charlotte; United States; 14 April 2018 through 15 April 2018*. TAPPI Press, p. 151-159 9 p.

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

Sub-100 fs pulse generation from a Tm,Ho: CALYO laser mode-locked by a GaSb-based SESAM at ~2043 nm

Zhao, Y., Wang, Y., Zhang, X., Mateos, X., Pan, Z., Loiko, P., Zhou, W., Xu, X., Xu, J., Shen, D., Suomalainen, S., Härkönen, A., Guina, M., Griebner, U. & Petrov, V., 1 Jan 2018, *CLEO: Science and Innovations, CLEO_SI 2018*. OSA -

The Optical Society

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

Ultra-large mode area single frequency anisotropic MOPA with double clad Yb-doped tapered fiber

Noronen, T., Fedotov, A., Rissanen, J., Gumenyuk, R., Butov, O., Chamorovskii, Y., Golant, K., Odnoblyudov, M. & Filippov, V., 1 Jan 2018, *Fiber Lasers XV: Technology and Systems*. SPIE, IEEE, 6 p. 105121T. (Proceedings of SPIE; vol. 10512).

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

360 panorama super-resolution using deep convolutional networks

Fakour-Sevom, V., Guldogan, E. & Kämäräinen, J-K., 2018, *VISIGRAPP 2018 - Proceedings of the 13th International Joint Conference on Computer Vision, Imaging and Computer Graphics Theory and Applications*. SCITEPRESS, Vol. 4. p. 159-165 7 p.

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

Action recognition using the 3D dense microblock difference

Voronin, V., Pismenskova, M., Zelensky, A., Cen, Y., Nadykto, A. & Egiazarian, K., 2018, *Counterterrorism, Crime Fighting, Forensics, and Surveillance Technologies II*. SPIE, 108020O. (Proceedings of SPIE; vol. 10802).

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

Adaptive Feedback in Local Coordinates for Real-time Vision-Based Motion Control Over Long Distances

M. Aref, M., Astola, P., Vihonen, J., Tabus, I., Ghabcheloo, R. & Mattila, J., 2018, *International Conference on Robotics and Mechantronics : (ICRoM 2017)*. IOP Publishing Ltd., Vol. 320. 6 p. 012009. (IOP conference series : materials science and engineering).

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

Alpha radiation induced luminescence in solar blind spectral region

Kerst, T. & Toivonen, J., 2018, *CLEO: Applications and Technology, CLEO_AT 2018*. OSA - The Optical Society

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

Analysis of outdoor and indoor propagation at 15 GHz and millimeter wave frequencies in microcellular environment

Sheikh, M. U. & Lempiainen, J., 2018, In : *Advances in Science, Technology and Engineering Systems*. 3, 1, p. 160-167 8 p.

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

Architectural patterns for microservices: A systematic mapping study

Taibi, D., Lenarduzzi, V. & Pahl, C., 2018, *CLOSER 2018 - Proceedings of the 8th International Conference on Cloud Computing and Services Science*. SCITEPRESS, p. 221-232 12 p.

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

A social capital perspective on gaining optimal solutions from suppliers as preferred customer

Jääskeläinen, A., Schiele, H. & Aarikka-Stenroos, L., 2018, *Academy of Management Proceedings*. 1 ed. Academy of Management AOM, Vol. 2018. (Academy of Management Proceedings; vol. 2018, no. 1).

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

Automated pile transfer work cycles with a robotic wheel loader

Halbach, E., Kolu, A. & Ghabcheloo, R., 2018, *17th International Conference on Computing in Civil and Building Engineering (ICCCBE): Tampere, 5-7 June 2018*. Mela, K., Pajunen, S. & Raasakka, V. (eds.). Tampere, Finland: RIL, 8 p.

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

Beyond ic 4.0 : the future potential of bi-tool utilization in the private healthcare

Ratia, M. & Myllärniemi, J., 2018, *13th International Forum on Knowledge Asset Dynamics, IFKAD 2018: Delft, Netherlands, 4-6 July 2018*. (Proceedings IFKAD).

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

Cold-formed RHS T joints with initial geometrical imperfections

Garifullin, M., Bronzova, M. K., Heinisuo, M., Mela, K. & Pajunen, S., 2018, In : Magazine of Civil Engineering. 80, 4, p. 81-94 14 p.

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

Collective nonlinear optical effects in plasmonic nanohole ensembles of different rotational symmetries

Bautista, G., Dreser, C., Zang, X., Kern, D., Kauranen, M. & Fleischer, M., 2018, *CLEO: QELS_Fundamental Science 2018*. The Optical Society; OSA, 2 p. FW3G.3

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

Core Project Team As a Management Entity for Construction Projects

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

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

Development of efficient electrically pumped nanolasers based on InAlGaAs tunnel junction

Fang, C. Y., Vallini, F., Amili, A. E., Tukiainen, A., Lyytikäinen, J., Guina, M. & Fainman, Y., 2018, *CLEO: Science and Innovations, CLEO_SI 2018*. OSA - The Optical Society

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

Digital image correlation study of the deformation and functioning of the human heart during open-heart surgery

Soltani, A., Curtze, S., Lahti, J., Järvelä, K., Laurikka, J., Hokka, M. & Kuokkala, V. T., 2018, *Mechanics of Biological Systems, Materials and other topics in Experimental and Applied Mechanics - Proceedings of the 2017 Annual Conference on Experimental and Applied Mechanics*. Springer New York LLC, Vol. 4. p. 19-27 9 p. (Conference Proceedings of the Society for Experimental Mechanics).

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

Effect of elevated nitrate and sulfate concentrations on selenate removal by mesophilic anaerobic granular sludge bed reactors

Tan, L. C., Nancharaiah, Y. V., van Hullebusch, E. D. & Lens, P. N. L., 2018, In : Environmental Science: Water Research & Technology. 4, 2, p. 303-314

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

Effects of adiabatic heating estimated from tensile tests with continuous heating

Vazquez Fernandez, N., Isakov, M., Hokka, M. & Kuokkala, V. T., 2018, *Dynamic Behavior of Materials - Proceedings of the 2017 Annual Conference on Experimental and Applied Mechanics*. Springer New York LLC, Vol. 1. p. 1-7 7 p. (Conference Proceedings of the Society for Experimental Mechanics).

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

Electro-optic steering of random laser emission in liquid crystals

Assanto, G., Perumbilavil, S., Piccardi, A. & Kauranen, M., 2018, In : Photonics Letters of Poland. 10, 4, p. 103-105 3 p.

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

Elementary math to close the digital skills gap

Niemelä, P. & Valmari, A., 2018, *CSEdu 2018 - Proceedings of the 10th International Conference on Computer Supported Education*. SCITEPRESS, Vol. 2. p. 154-165 12 p.

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

Enhanced outdoor to indoor propagation models and impact of different ray tracing approaches at higher frequencies

Sheikh, M. U., Hiltunen, K. & Lempiäinen, J., 2018, In : Advances in Science, Technology and Engineering Systems. 3, 2, p. 58-68 11 p.

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

Evaluating the contrast of planar periodic patterns on paper

Raunio, J-P., Makela, I., Mäntylä, M. & Ritala, R., 2018, *Paper Conference and Trade Show, PaperCon 2018*. TAPPI Press, p. 294-302 9 p.

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

Evaluation of visual object trackers on equirectangular panorama

Kart, U., Kämäräinen, J. K., Fan, L. & Gabbouj, M., 2018, *VISIGRAPP 2018 - Proceedings of the 13th International Joint Conference on Computer Vision, Imaging and Computer Graphics Theory and Applications*. SCITEPRESS, Vol. 5. p. 25-32 8 p.

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

Eye-in-Hand Manipulation for Remote Handling: Experimental Setup

Niu, L., Suominen, O., M. Aref, M., Mattila, J., Ruiz, E. & Esque, S., 2018, *International Conference on Robotics and Mechantronics : (ICRoM 2017)*. IOP Publishing Ltd., Vol. 320. 7 p. 012007. (IOP conference series : materials science and engineering).

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

Frequency-doubled VECSEL employing a Volume Bragg Grating for linewidth narrowing

Kantola, E., Penttinen, J-P., Leinonen, T., Ranta, S. & Guina, M., 2018, *CLEO: Applications and Technology, CLEO_AT 2018*. OSA - The Optical Society

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

Frequency-doubled wafer-fused 638 nm VECSEL with an output power of 5.6 W

Kantola, E., Leinonen, T., Rantamäki, A., Guina, M., Sirbu, A. & Iakovlev, V., 2018, *CLEO: Applications and Technology, CLEO_AT 2018*. OSA - The Optical Society

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

Gibbs Dyadic Differentiation on Groups - Evolution of the Concept

Stankovic, R. S., Astola, J. & Moraga, C., 2018, *Computer Aided Systems Theory – EUROCAST 2017 - 16th International Conference, Revised Selected Papers*. Springer Verlag, p. 229-237 9 p. (Lecture Notes in Computer Science; vol. 10672).

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

Hierarchical deformable part models for heads and tails

Yancheshmeh, F. S., Chen, K. & Kämäräinen, J-K., 2018, *VISIGRAPP 2018 - Proceedings of the 13th International Joint Conference on Computer Vision, Imaging and Computer Graphics Theory and Applications*. SCITEPRESS, Vol. 5. p. 45-55 11 p.

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

Highly-efficient Ho:KY(WO4)2 thin-disk lasers at 2.06 μm

Mateos, X., Loiko, P., Lamrini, S., Scholle, K., Fuhrberg, P., Suomalainen, S., Härkönen, A., Guina, M., Vatnik, S., Vedin, I., Aguiló, M., Díaz, F., Wang, Y., Griebner, U. & Petrov, V., 2018, *Pacific-Rim Laser Damage 2018: Optical Materials for High-Power Lasers*. SPIE, IEEE, 107130J. (Proceedings of SPIE; vol. 10713).

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

High performance GaSb superluminescent diodes for tunable light source at 2 μm and 2.55 μm

Zia, N., Viheriälä, J., Koivusalo, E., Aho, A., Suomalainen, S. & Guina, M., 2018, *CLEO: Applications and Technology, CLEO_AT 2018*. OSA - The Optical Society

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

High power picosecond MOPA with anisotropic ytterbium-doped tapered double-clad fiber

Fedotov, A., Noronen, T., Rissanen, J., Gumenyuk, R., Petrov, A., Chamorovskii, Y., Golant, K., Odnoblyudov, M. & Filippov, V., 2018, *Proceedings of SPIE : Fiber Lasers and Glass Photonics: Materials through Applications*. Taccheo, S., Mackenzie, JI. & Ferrari, M. (eds.). SPIE-INT SOC OPTICAL ENGINEERING, Vol. 10683. 7 p. (Proceedings of SPIE; vol. 10683).

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

High-speed manufacturing of antimicrobial paper

Brobbey, K. J., Haapanen, J., Gunell, M., Mäkelä, J. M., Eerola, E., Saarinen, J. J. & Toivakka, M., 2018, *Paper Conference and Trade Show, PaperCon 2018*. TAPPI Press, p. 564-566 3 p.

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

Integrated multi-wavelength mid-IR light source for gas sensing

Karioja, P., Alajoki, T., Cherchi, M., Ollila, J., Harjanne, M., Heinlehto, N., Suomalainen, S., Zia, N., Tuorila, H., Viheriälä, J., Guina, M., Buczynski, R., Kasztelanic, R., Salo, T., Virtanen, S., Kluczynski, P., Borgen, L., Ratajczyk, M. & Kalinowski, P., 2018, *Next-Generation Spectroscopic Technologies XI*. SPIE, IEEE, 106570A. (SPIE Conference Proceedings; vol. 10657).

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

Internal Heat Generation in Tension Tests of AISI 316 Using Full-Field Temperature and Strain Measurements

Smith, J., Kuokkala, V-T., Seidt, J. & Gilat, A., 2018, *Advancement of Optical Methods in Experimental Mechanics, Volume 3. Conference Proceedings of the Society for Experimental Mechanics Series*. Springer New York LLC, Vol. 3. p. 97-103 7 p. (Conference Proceedings of the Society for Experimental Mechanics).

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

In vitro characterization of arylhydrazones of active methylene derivatives

Palanivel, S., Zhurina, A., Doan, P., Chandraseelan, J. G., Khandelwal, V. K. M., Zubkov, F. I., Mahmudov, K. T., Pombeiro, A. J. L., Yli-Harja, O. & Kandhavelu, M., 2018, In : *Saudi Pharmaceutical Journal*. 26, 3, p. 430-436

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

JPEG Pleno: a standard framework for representing and signaling plenoptic modalities

Schelkens, P., Alpaslan, Z., Ebrahimi, T., Pereira, F., Pinheiro, A., Tabus, I. & Chen, Z., 2018, *SPIE Proceedings Volume 10752: Applications of Digital Image Processing XLI*. SPIE, Vol. 10752. 10 p. (SPIE Conference Proceedings).

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

Kehittämistutkimus: vuorovaikutteisten Matlab-opetusohjelmien vaikutus minäpystyvyyteen ja oppimistuloksiin yliopistomatemiikassa

Kaarakka, T. E., Ali-Löytty, S. & Huhtanen, M., 2018, In : *FMSERA Journal*. 2, 1, p. 67-77 11 p.

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

Keyframe-based video summarization with human in the loop

Ainasoja, A. E., Hietanen, A., Lankinen, J. & Kämäräinen, J-K., 2018, *VISIGRAPP 2018 - Proceedings of the 13th International Joint Conference on Computer Vision, Imaging and Computer Graphics Theory and Applications*. SCITEPRESS, Vol. 4. p. 287-296 10 p.

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

Laser Scanning Tasks of Building Refurbishment Project

Uotila, U., Saari, A. & Junnonen, J-M., 2018, *Proceedings of the 17th International Conference on Computing in Civil and Building Engineering (ICCCBE)*.

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

Making the cloud work for software producers: Linking architecture, operating cost and revenue

Rosati, P., Fowley, F., Pahl, C., Taibi, D. & Lynn, T., 2018, *CLOSER 2018 - Proceedings of the 8th International Conference on Cloud Computing and Services Science*. SCITEPRESS, p. 364-375 12 p.

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

Model for efficient development of security audit criteria

Kelo, T., Eronen, J. & Rousku, K., 2018, *Proceedings of the 17th European Conference on Cyber Warfare and Security, ECCWS 2018*. Curran Associates, p. 244-252 9 p.

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

Non-resonant enhancement of second-harmonic generation from metal nanoislands coated with dielectric layers

Koskinen, K., Scherbak, S., Chervinskii, S., Lipovskii, A. & Kauranen, M., 2018, *CLEO: QELS_Fundamental Science 2018*. OSA, 2 p. JTU2A.134

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

Proceedings of the 1st Transdisciplinary Workplace Research Conference

Nenonen, S. (ed.), Salmisto, A. (ed.) & Petrulaitiene, V. (ed.), 2018, Tampere University of Technology. Department of Civil Engineering. 64 p. (Tampereen teknillinen yliopisto. Rakennustekniikan laboratorio. Rakennustuotanto ja -talous. Raportti; no. 26)

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

Projektityöskentelyn kehittäminen yläkoulun matematiikan opetuksessa

Viro, I. E. & Joutsenlahti, J., 2018, In : FMSEJA Journal . 2, 1, p. 90-99 10 p.

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

Real-time human pose estimation with convolutional neural networks

Linna, M., Kannala, J. & Rahtu, E., 2018, *VISIGRAPP 2018 - Proceedings of the 13th International Joint Conference on Computer Vision, Imaging and Computer Graphics Theory and Applications*. SCITEPRESS, Vol. 5. p. 335-342 8 p.

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

Real-time measurements of nonlinear instabilities in optical fibers

Ryczkowski, P., Närhi, M., Billet, C., Merolla, J. M., Dudley, J. M. & Genty, G., 2018, *CLEO: Applications and Technology, CLEO_AT 2018*. OSA - The Optical Society

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

Resonant harmonic generation in AlGaAs nanoantennas using cylindrical vector beams

Camacho-Morales, R., Bautista, G., Zang, X., Xu, L., Turquet, L., Miroshnichenko, A., Lamprianidis, A., Rahmani, M., Neshev, D. N. & Kauranen, M., 2018, *CLEO: QELS Fundamental Science 2018*. The Optical Society; OSA, 2 p. FF1E.6

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

Sub-parts-per-trillion sensitivity in trace gas detection by cantilever-enhanced photo-acoustic spectroscopy

Tomberg, T., Vainio, M., Hieta, T. & Halonen, L., 2018, *CLEO: Applications and Technology, CLEO_AT 2018*. OSA - The Optical Society

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

Underpinning Interrelated Factors of Physical, Virtual, and Social Learning Environments

Kangas, J. & Poutanen, J., 2018, *ICERI2018 Proceedings*. p. 8087-8096 (ICERI proceedings).

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

What's inside a rubble pile asteroid? DiSCUS - A tomographic twin radar Cubesat to find out

Bambach, P., Deller, J., Martel, J., Vilenius, E., Goldberg, H., Sorsa, L.-I., Pursiainen, S., Takala, M., Wurster, A., Braun, H. M., Lentz, H., Jutzi, M., Wittig, M., Chitu, C. C., Ritter, B. & Karatekin, O., 2018, *69th International Astronautical Congress, IAC 2018*. (Proceedings of the International Astronautical Congress, IAC).

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

Yliopistomatematiikan sähköisten tehtävien ja matemaattisen ajattelun kehittäminen

Myllykoski, T. J., Mattila, P., Ali-Löytty, S., Kaarakka, T. & Viro, E., 2018, In : FMSEJA Journal . 2, 1, p. 46-56 11 p.

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

基于相位旋转的SCMA码本优化方法

Shao, K., Zhou, B., Wang, G. & Yu, B., 2018, In : *Xi Tong Gong Cheng Yu Dian Zi Ji Shu/Systems Engineering and Electronics*. 40, 10, p. 2354-2362 9 p.

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

Assessing the usefulness of an early idea development tool among experienced researchers

Saari, U., Aarikka-Stenroos, L., Boedeker, S., Köppä, L. & Langwaldt, J., 22 Dec 2017, In : *CERN IdeaSquare Journal of Experimental Innovation*. 1, 2, p. 3-8 6 p.

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

Mechanisms of disruptive technological change: Case studies in transformation of traditional industries

Sommarberg, M. & Mäkinen, S., 1 Dec 2017, *Proceedings in 2017 Portland International Conference in Management and Engineering (PICMET): (PICMET) 9-13 July 2017*. IEEE, p. 1-10 10 p.

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

Sata vuotta vesihuoltoa Suomessa

Juuti, P., Katko, T. S. & Rajala, R., Dec 2017, In : *Vesitalous*. 58, 6, p. 13-15 3 p.

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

Comparative evaluation of radio propagation properties at 15 GHz and 60 GHz frequencies

Solomitckii, D., Semkin, V., Naderpour, R., Ometov, A. & Andreev, S., 1 Nov 2017, *2017 9th International Congress on Ultra Modern Telecommunications and Control Systems and Workshops (ICUMT)*. IEEE, p. 91-95 5 p.

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

Multi-factor authentication: A survey and challenges in V2X applications

Ometov, A. & Bezzateev, S., 1 Nov 2017, *2017 9th International Congress on Ultra Modern Telecommunications and Control Systems and Workshops (ICUMT)*. IEEE, p. 129-136 8 p.

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

Upper bound and approximation of random access throughput over chase combining HARQ

Burkov, A., Matveev, N., Turlikov, A., Bulanov, A., Gahnina, O. & Andreev, S., 1 Nov 2017, *2017 9th International Congress on Ultra Modern Telecommunications and Control Systems and Workshops (ICUMT)*. IEEE, p. 143-147 5 p.

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

Analysis of Crowdsensed WiFi Fingerprints for Indoor Localization

Peng, Z., Richter, P., Leppäkoski, H. & Lohan, E-S., Nov 2017, *Proceedings of the 21st Conference of Open Innovations Association FRUCT*. Helsinki, Finland: FRUCT, p. 268-277 10 p.

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

Wearable e-textile split ring passive UHF RFID tag: Body-worn performance evaluation

Ma, S., Ukkonen, L., Sydänheimo, L. & Björninen, T., Nov 2017, *2017 IEEE Asia Pacific Microwave Conference (APMC)*. IEEE

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

Probabilistic Mapping of Human Visual Attention from Head Pose Estimation

Veronese, A., Racca, M., Pieters, R. & Kyrki, V., 30 Oct 2017, In : *Frontiers in Robotics and AI*. 11 p., 53.

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

Inkjet printed metallic micropillars for bare die flip-chip bonding

Khorramdel, B., Kraft, T. M. & Mäntysalo, M., 26 Oct 2017, In : *Flexible and Printed Electronics*. 2, 4, p. 045005

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

Alipaineistetun tuulettuvan ryömintätilan rakennusfysikaaliset FEM-simuloinnit

Salo, J., Huttunen, P. & Vinha, J., 24 Oct 2017, *Rakennusfysiikka 2017. Uusimmat tutkimustulokset ja hyvät käytännön ratkaisut: 24-26.10.2017, Tampere*. Vinha, J. & Kivioja, H. (eds.). Tampere: Tampereen teknillinen yliopisto, Rakennustekniikka, Rakennusfysiikka, Vol. 2. p. 413-422 11 p. (Tampereen teknillinen yliopisto. Rakennustekniikka. Rakennusfysiikka.).

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

Betonin kosteusteknisten materiaaliominaisuuksien määrittäminen

Vänttinen, K., Tuominen, E. & Vinha, J., 24 Oct 2017, *Rakennusfysiikka 2017. Uusimmat tutkimustulokset ja hyvät käytännön ratkaisut: 24.-26.10.2017, Tampere*. Vinha, J. & Kivioja, H. (eds.). Tampere: Tampereen teknillinen yliopisto, Rakennustekniikka, Rakennusfysiikka, Vol. 2. p. 461-470 10 p. (Tampereen teknillinen yliopisto. Rakennustekniikka. Rakennusfysiikka.).

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

Kosteusvaurioiden vakavuus kuntien rakennuksissa

Annala, P., Lahdensivu, J., Suonketo, J., Pentti, M., Laukkarinen, A. & Vinha, J., 24 Oct 2017, *Rakennusfysiikka 2017. Uusimmat tutkimustulokset ja hyvät käytännön ratkaisut: 24.-26.10.2017, Tampere*. Vinha, J. & Kivioja, H. (eds.).

Tampere: Tampereen teknillinen yliopisto, Rakennustekniikka, Rakennusfysiikka, Vol. 1. p. 135-140 6 p. (Tampereen

teknillinen yliopisto. Rakennustekniikka. Rakennusfysiikka.).

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

Koulujen ja päiväkotien laskettu ja toteutunut energiankulutus

Ruusala, A. & Vinha, J., 24 Oct 2017, *Rakennusfysiikka 2017. Uusimmat tutkimustulokset ja hyvät käytännön ratkaisut: 24.-26.10.2017, Tampere*. Vinha, J. & Kivioja, H. (eds.). Tampere: Tampereen teknillinen yliopisto, Rakennustekniikka, Rakennusfysiikka, Vol. 1. p. 267-274 8 p. (Tampereen teknillinen yliopisto. Rakennustekniikka. Rakennusfysiikka.).

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

Kuorielementtien kuivumisen mallintaminen hydrataation huomioivalla FEM-laskennalla

Sekki, P., Korhonen, L. & Vinha, J., 24 Oct 2017, *Rakennusfysiikka 2017. Uusimmat tutkimustulokset ja hyvät käytännön ratkaisut: 24.-26.10.2017, Tampere*. Vinha, J. & Kivioja, H. (eds.). Tampere: Tampereen teknillinen yliopisto, Rakennustekniikka, Rakennusfysiikka, Vol. 2. p. 399-405 7 p. (Tampereen teknillinen yliopisto. Rakennustekniikka. Rakennusfysiikka.).

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

Kustannusoptimaaliset energiakorjaus- ja uusiutuvan energian tuotannon ratkaisut kunnallisissa palvelurakennuksissa

Jokisalo, J., Sankelo, P., Sirén, K. & Vinha, J., 24 Oct 2017, *Rakennusfysiikka 2017. Uusimmat tutkimustulokset ja hyvät käytännön ratkaisut: 24.-26.10.2017, Tampere*. Vinha, J. & Kivioja, H. (eds.). Tampere: Tampereen teknillinen yliopisto, Rakennustekniikka, Rakennusfysiikka, Vol. 1. p. 287-292 6 p.

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

Maanvastaisten seinien lämpö- ja kosteustekninen toiminta

Laukkarinen, A., Heiskanen, R. & Vinha, J., 24 Oct 2017, *Rakennusfysiikka 2017. Uusimmat tutkimustulokset ja hyvät käytännön ratkaisut: 24.-26.10.2017, Tampere*. Vinha, J. & Kivioja, H. (eds.). Tampere: Tampereen teknillinen yliopisto, Rakennustekniikka, Rakennusfysiikka, Vol. 1. p. 71-76 6 p. (Tampereen teknillinen yliopisto. Rakennustekniikka. Rakennusfysiikka.).

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

Paine-erot Pirkanmaan ja Helsingin julkisissa palvelurakennuksissa

Kauppinen, A., Kiviste, M., Pirhonen, J. & Vinha, J., 24 Oct 2017, *Rakennusfysiikka 2017. Uusimmat tutkimustulokset ja hyvät käytännön ratkaisut: 24.-26.10.2017, Tampere*. Vinha, J. & Kivioja, H. (eds.). Tampere: Tampereen teknillinen yliopisto, Rakennustekniikka, Rakennusfysiikka, Vol. 1. p. 215-221 7 p. (Tampereen teknillinen yliopisto. Rakennustekniikka. Rakennusfysiikka.).

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

Puukerrostalon työmaavaiheen lämpö- ja kosteusolosuhteiden mittaukset

Laukkarinen, A., Musakka, S., Penttilä, O., Teriö, O. & Vinha, J., 24 Oct 2017, *Rakennusfysiikka 2017. Uusimmat tutkimustulokset ja hyvät käytännön ratkaisut: 24.-26.10.2017, Tampere*. Vinha, J. & Kivioja, H. (eds.). Tampere: Tampereen teknillinen yliopisto, Rakennustekniikka, Rakennusfysiikka, Vol. 1. p. 167-172 6 p. (Tampereen teknillinen yliopisto. Rakennustekniikka. Rakennusfysiikka.).

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

Puukerrostalorakentamisen kosteudenhallinta

Teriö, O., Penttilä, O., Laukkarinen, A., Musakka, S. & Vinha, J., 24 Oct 2017, *Rakennusfysiikka 2017. Uusimmat tutkimustulokset ja hyvät käytännön ratkaisut: 24.-26.10.2017, Tampere*. Vinha, J. & Kivioja, H. (eds.). Tampere: Tampereen teknillinen yliopisto, Rakennustekniikka, Rakennusfysiikka, Vol. 1. p. 173-178 6 p. (Tampereen teknillinen yliopisto. Rakennustekniikka. Rakennusfysiikka.).

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

Suomessa markkinoilla olevien kalsiumsilikaattilevyjen rakennusfysikaaliset materiaaliominaisuudet

Tuominen, E., Vainio, M. & Vinha, J., 24 Oct 2017, *Rakennusfysiikka 2017. Uusimmat tutkimustulokset ja hyvät käytännön ratkaisut: 24.-26.10.2017, Tampere*. Vinha, J. & Kivioja, H. (eds.). Tampere: Tampereen teknillinen yliopisto, Rakennustekniikka, Rakennusfysiikka, Vol. 2. p. 455-460 6 p. (Tampereen teknillinen yliopisto. Rakennustekniikka. Rakennusfysiikka.).

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

Suuren lämmöneristämättömän maanvastaisen alapohjan vaikutus rakennuksen energiankulutukseen

Huttunen, P., Rantala, J. & Vinha, J., 24 Oct 2017, *Rakennusfysiikka 2017. Uusimmat tutkimustulokset ja hyvät käytännön ratkaisut: 24-26.10.2017, Tampere*. Vinha, J. & Kivioja, H. (eds.). Tampere: Tampereen teknillinen yliopisto, Rakennustekniikka, Rakennusfysiikka, Vol. 1. p. 335-342 8 p. (Tampereen teknillinen yliopisto. Rakennustekniikka. Rakennusfysiikka.).

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

Electrostatic discharge characteristics of conductive polymers

Viheriäkoski, T., Kärjä, E., Gärtner, R. & Tamminen, P., 18 Oct 2017, *Electrical Overstress/Electrostatic Discharge Symposium Proceedings 2017, EOS/ESD 2017*. ESD Association

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

Qualification challenges of footwear and flooring systems

Viheriäkoski, T., Jokinen, V., Smallwood, J., Korpipää, A. & Tamminen, P., 18 Oct 2017, *Electrical Overstress/Electrostatic Discharge Symposium Proceedings 2017, EOS/ESD 2017*. ESD Association

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

Indoor Localisation using Aroma Fingerprints: A First Sniff

Müller, P., Lekkala, J., Ali-Löytty, S. & Piche, R., Oct 2017, *2017 14th Workshop on Positioning, Navigation and Communications (WPNC)*. Bremen, Germany: IEEE

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

Julkisivujen ja parvekkeiden talvikorjausohje

Pakkala, T., Lahdensivu, J., Köliö, A. & Annala, P., Oct 2017, *Rakennusfysiikka 2017: Uusimmat tutkimustulokset ja hyvät käytännön ratkaisut, 24-26.10.2017, Tampere*. Vinha, J. & Kivioja, H. (eds.). Tampere: Tampereen teknillinen yliopisto, Rakennustekniikka, Rakennusfysiikka, p. 179-184 6 p. (Tampereen teknillinen yliopisto. Rakennustekniikka. Rakennusfysiikka.).

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

Rational Number Knowledge Assessment and Training With a Game Competition

Kiili, K., Ojansuu, K., Lindstedt, A. & Ninaus, M., Oct 2017, *Proceedings of The 11th European Conference on Game-Based Learning ECGBL 2017*. Academic Conferences and Publishing International Limited, p. 320-327

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

The effect of tungsten carbide particles content in a weld deposit on its abrasion resistance

Hlavatý, I., Kozák, J., Krejci, L., Samardzic, I. & Tuominen, J., Oct 2017, In : *Technical Gazette - Technicki vjesnik*. 24, 5, p. 1345-1349 5 p.

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

Printed and organic diodes: devices, circuits and applications

Kraft, T., Berger, P. & Lupo, D., 29 Sep 2017, In : *Flexible and Printed Electronics*. 2, 3, 19 p., 033001.

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

Barkhausen noise Potcore sensor simulations with Comsol

Laitinen, A., Santa-aho, S., Lukinmaa, H., Suominen, L. & Vippola, M., 24 Sep 2017, *12th International Conference on Barkhausen Noise and Micromagnetic Testing*. ICBM, p. 97-107 11 p.

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

Case depth prediction of nitrided components

Sorsa, A., Santa-aho, S., Aylott, C., Shaw, B., Vippola, M. & Leiviskä, K., 24 Sep 2017, *12th International Conference on Barkhausen Noise and Micromagnetic Testing*. ICBM, p. 65-72 8 p.

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

Embroidered antennas and antenna-electronics interfaces for wearable RFID tags

Virkki, J., Chen, X., Björninen, T. & Ukkonen, L., 20 Sep 2017, *IMWS-AMP 2017 International Microwave Workshop Series on Advanced Materials and Processes*. IEEE, 3 p.

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

Knowledge sharing in knowledge collectivity: case digitalization in industrial network

Suominen, A. H. & Mäenpää, S., 7 Sep 2017, *Proceedings of the 18th European Conference on Knowledge Management ECKM 2017: 7-8 September 2017, Barcelona, Spain*. Marimon, F., Mas-Machuca, M., Berbegal-Mirabent, J. & Bastida, R. (eds.). Academic Conferences and Publishing International, p. 956-963 8 p.

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

Tuning extrinsic noise effects on a small genetic circuit

Mohamed Bahrudeen, M. & S. Ribeiro, A., 4 Sep 2017, *Proceedings of ECAL 2017: 14th European Conference on Artificial Life*. Massachusetts Institute of Technology

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

Comparative investigation of remote tracking devices for aging care

Munir, M. W., Shahid, N., Omair, S. M., Munir, G. & Ul Haque, M. Z., 1 Sep 2017, In : INTERNATIONAL JOURNAL OF INFORMATION TECHNOLOGY. 9, 3, p. 261-266 6 p.

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

Quality evaluation on of contractor's schedule for building renovation

Kähkönen, K. & Brandt, J., 1 Aug 2017, *Re-shaping the construction industry*. Ciribini, A., Alaimo, G., Capone, P., Daniotti, B., Dell'Osso, G. & Nicoletta, M. (eds.). ISTeA Italian Society of Science, Technology and Engineering of Architecture; Maggioli Editore, p. 175-184 10 p.

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

Printed soft-electronics for remote body monitoring

Mäntysalo, M., Vuorinen, T., Jeyhani, V. & Vehkaoja, A., Aug 2017, *Hybrid Memory Devices and Printed Circuits 2017: SPIE Organic Photonics + Electronics | 6-10 August 2017*. SPIE, 7 p. (SPIE Conference Proceedings; vol. 10366).

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

Enterprise architecture and organizational reform: a project debrief

Dang, D. & Pekkola, S., 20 Jul 2017, *Proceedings the 21st Pacific Asian Conference on Information Systems 2017 (PACIS'2017): Langkawi, Malay, 16-20 July, 2017*. Association for Information Systems AIS, 16 p.

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

NB-IoT for D2D-enhanced content uploading with social trustworthiness in 5G systems

Militano, L., Orsino, A., Araniti, G. & Iera, A., 8 Jul 2017, In : Future Internet. 9, 3, 31.

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

Applying third-party moocs in programming education: a case study

Saari, M., Mäkinen, T. & Linna, P., 3 Jul 2017, *9th International Conference on Education and New Learning Technologies: 3-5 July, 2017 Barcelona, Spain*. Barcelona, Spain: IATED, p. 53-59 7 p.

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

Who is who in Big Social Data? A Bibliographic Network Analysis Study

Jussila, J., Menon, K., Gupta, J. & Kärkkäinen, H., 3 Jul 2017, *Proceedings of the 4th European Conference on Social Media ECSM 2017*. Reading, UK: Academic Conferences and Publishing International Limited, Vol. 4. p. 161-169

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

Tools, pedagogical models, and best practices for digital storytelling

Multisilta, J. & Niemi, H., Jul 2017, *Encyclopedia of information science and technology*. Khosrow-Pour, M. (ed.). 4th ed. IGI Global

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

Real-time measurements of dissipative solitons in a mode-locked fiber laser

Ryczkowski, P., Närhi, M., Billet, C., Merolla, J. -M., Genty, G. & Dudley, J. M., 26 Jun 2017, In : arXiv eprint.

Research output: Contribution to journal › Article › Scientific

Maximally Flat Property and Bandwidth Enhancing by Transfer Function Zeroes IEEE-NewCAS France

Filanovsky, I. & Tchamov, N., 25 Jun 2017, *2017 15th IEEE International New Circuits and Systems Conference (NEWCAS)*. IEEE

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

On the prospects of full-duplex military radios

Riihonen, T., Korpi, D., Rantula, O. & Valkama, M., 23 Jun 2017, *2017 International Conference on Military Communications and Information Systems, ICMCIS 2017*. IEEE

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

Morphology Development, Structure and Dielectric Properties of Biaxially Oriented Polypropylene

Rytöluoto, I., Ritamäki, M., Gitsas, A., Pasanen, S. & Lahti, K., 18 Jun 2017, *25th Nordic Insulation Symposium on Materials, Components and Diagnostics*. 6 p. (Proceeding of the Nordic Insulation Symposium; no. 25).

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

Knowledge transfer and work productivity

Palvalin, M., Vuori, V. & Helander, N., 15 Jun 2017, *Proceedings of 12th International Forum on Knowledge Asset Dynamics: St. Petersburg, Russia 7-9 June 2017*. Spender, JC., Schiuma, G. & Gavrilova, T. (eds.). p. 1120-1134 15 p. (Proceedings IFKAD).

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

The role of inorganics in modelling of biomass gasification

Kontinen, J., Kramb, J., DeMartini, N. & Gomez-Barea, A., 13 Jun 2017, *EUBCE 2017 Online Conference Proceedings*. Ek, L., Ernrooth, H., Scarlat, N., Grassi, A. & Helm, P. (eds.). ETA-Florence Renewable Energies, p. 443-447 5 p. (European biomass conference and exhibition proceedings).

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

Cavitation wear characteristics of Al₂O₃-ZrO₂-ceramic coatings deposited by APS and HVOF -processes

Kiilakoski, J., Lukac, F., KoivuLuoto, H. & Vuoristo, P., 9 Jun 2017, *International Thermal Spray Conference ITSC 2017, Conference Proceedings: June 7-9, 2017, Düsseldorf, Germany..* Düsseldorf: DVS Media GmbH, Vol. 336. p. 928-933 6 p. (DVS-Berichte / DVS - Deutscher Verband für Schweißen und Verwandte Verfahren e.V.).

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

Managing intellectual liabilities by service recovery

Laihonen, H., Sillanpää, V. & Vuolle, M., 9 Jun 2017, *Proceedings IFKAD 2017, 12th International Forum on Knowledge Asset Dynamics: Knowledge Management in the 21st Century: Resilience, Creativity and Co-creation, 7-9 Jun 2017, St. Petersburg, Russia..* Schiuma, G., Spender, JC. & Garvilova, T. (eds.). IKAM - Institute of Knowledge Asset Management, p. 1570-1583 14 p. (Proceedings IFKAD).

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

A bibliometric study on authorship trends and research themes in knowledge management literature

Jussila, J. J., Mustafee, N., Aramo-Immonen, H., Menon, K., Hajikhani, A. & Helander, N., 7 Jun 2017, *12th International Forum on Knowledge Asset Dynamics, St. Petersburg, Russia 7-9 June 2017: Knowledge Management in the 21st Century: Resilience, Creativity and Co-creation*. St. Petersburg, Russia, Vol. 12. p. 389-397 9 p.

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

If you know social media, you see opportunities...

Aramo-Immonen, H., Vartio, M. & Jussila, J., 7 Jun 2017, *12th International Forum on Knowledge Asset Dynamics: Knowledge Management in the 21st Century: Resilience, Creativity and Co-creation*. Vol. 12. p. 575-584

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

Lessons for data-based value creation

Myllärniemi, J., Pekkola, S. & Helander, N., 7 Jun 2017, *12th International Forum on Knowledge Asset Dynamics, IFKAD 2017*. p. 398-407 10 p. (Proceedings IFKAD).

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

Why don't one maximizes database utilization in product and service development in manufacturing?

Väyrynen, H. & Manu, M., 7 Jun 2017, *Proceedings of the 12th International Forum on Knowledge Asset Dynamics 2017: St. Petersburg, Russia, 7-9 June 2017*. St. Petersburg, Russia, p. 93-105 13 p. (Proceedings IFKAD).

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

Advocator, jester, spokesperson, provocateur and boundary spanner? Exploring different communication styles at twitter

Ketonen-Oksi, S. & Jalonen, H., 6 Jun 2017, *12th Conference proceedings of IFKAD2017: St.Petersburg, Russia, 7-9 June 2017*. (Proceedings IFKAD).

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

Customer Perceived Value - A Key in Marketing of Integrated Solutions

Helander, N., Sillanpää, V., Vuori, V. & Uusitalo, O., 3 Jun 2017, *The 5th International Conference on Strategic Innovative Marketing., At Athens, Greece, Volume: 5: September 23-26, 2016*. Kavoura, A., Sakas, D. & Tomaras, P. (eds.). Springer, p. 37-42 (Springer Proceedings in Business and Economics).

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

Reliability and Perceived Value of Sentiment Analysis for Twitter Data

Jussila, J., Vuori, V., Okkonen, J. & Helander, N., 3 Jun 2017, *5th International Conference on Strategic Innovative Marketing, At Athens, Greece.: September 23-26, 2016*. Kavoura, A., Sakas, D. & Tomaras, P. (eds.). Springer, p. 43-48 (Springer Proceedings in Business and Economics).

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

Social Media Analytics Empowering Customer Experience Insight

Jussila, J., Boedeker, M., Jalonen, H. & Helander, N., 3 Jun 2017, *5th International Conference on Strategic Innovative Marketing, Volume: 5: September 23-26, 2016 At Athens, Greece*. Kavoura, A., Sakas, D. & Tomaras, P. (eds.). Springer, p. 25-30 (Springer Proceedings in Business and Economics).

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

Culture-Aware Web Information Systems in Dependence of Context

Jaakkola, H. & Thalheim, B., Jun 2017, *The Proceedings of the 27th International Conference on Information Modelling and Knowledge Bases*. Sornlertlamvanich, V., Chawakitchareon, P., Hansuebsai, A., Koopipat, C., Kiyoki, Y., Jaakkola, H., Thalheim, B. & Yoshida, N. (eds.). Sirindhorn International Institute of Technology, Thammasat University, Thailand, p. 309-331

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

Influence of the rotor eccentricity on the torque of a cage induction machine

Silwal, B., Rasilo, P., Belahcen, A. & Arkkio, A., Jun 2017, In : *Archives of Electrical Engineering*. 66, 2, p. 383-396

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

Managing different types of changes during the lifecycle of a complex delivery project

Vuorinen, L. & Martinsuo, M., Jun 2017, *The 2017 European Academy of Management (EURAM) Conference: Glasgow, Scotland, 21-24 June, 2017.. EURAM*, 33 p.

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

Natural Gas Engine Emission Reduction by Catalysts

Lehtoranta, K., Murtonen, T., Vesala, H., Koponen, P., Alanen, J., Simonen, P., Rönkkö, T., Timonen, H., Saarikoski, S., Maunula, T., Kallinen, K. & Korhonen, S., Jun 2017, In : *Emission Control Science and Technology*. 3, 2, p. 142-152 10 p.

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

Visual Data Mining in Software Repositories: A Survey

Eteläaho, A., Soini, J., Jaakkola, H. & Mattila, A-L., Jun 2017, *The Proceedings of the 27th International Conference on Information Modelling and Knowledge Bases*. Sornlertlamvanich, V., Chawakitchareon, P., Hansuebsai, A., Koopipat, C., Kiyoki, Y., Jaakkola, H., Thalheim, B. & Yoshida, N. (eds.). Sirindhorn International Institute of Technology, Thammasat University, Thailand, p. 367-385

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

Kactus2: A graphical EDA tool built on the IP-XACT standard

Virtanen, J., Kamppi, A., Pekkarinen, E., Määttä, J.-M., Järvinen, J., Matilainen, L. J., Teuvo, M. & Hämäläinen, T., 2 May 2017, In : The Journal of Open Source Software. 2, 13, p. 1 1 p.

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

Alkyl thiophene vinylene electropolymerization in C8mimPF6, potential use in solar cells

Rojas, V., Martinez, F., Bernede, J. C., Guenadez, L. C., Efimov, A. & Lemmetyinen, H., May 2017, In : Materials Sciences and Applications. 8, 5, p. 405-417 13 p.

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

Editorial: Information to support decision-making

Juuti, P. S., May 2017, In : Ympäristöhistoria: Finnish Journal of Environmental History. 2017, 1, p. 5-6

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

Local narratives in the long term water conflicts: Case of Turku Region in Finland

Juuti, P. S., Kurki, V. & Rajala, R., May 2017, In : Ympäristöhistoria: Finnish Journal of Environmental History. 2017, 1, p. 39-49

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

The logics taught and used at high schools are not the same

Valmari, A. & Hella, L., May 2017, *Proceedings of the Fourth Russian Finnish Symposium on Discrete Mathematics*. Karhumäki, J., Matiyasevich, Y. & Saarela, A. (eds.). Turku: TURKU CENTRE FOR COMPUTER SCIENCE, p. 172-186 15 p. (TUCS Lecture Notes; no. 26).

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

Vesi, ongelma ennen ja nyt?

Juuti, P., May 2017, In : Ympäristöhistoria: Finnish Journal of Environmental History. 2017, 1, p. 54-65

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

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

Asp, O. & Laaksonen, A., 24 Apr 2017, *Archives of Institute of Civil Engineering: 3rd European Conference on Buried Flexible Steel Structures, Rydzyna, Poland, 24-25 April 2017*. Madaj, A. & Jankowiak, I. (eds.). 23 ed. Poznan: Wydawnictwo Politechniki Poznanskiej, Vol. 2017. p. 53-60 8 p.

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

HEVC-compliant viewport-adaptive streaming of stereoscopic panoramic video

Zare, A., Sreedhar, K. K., Vadakital, V. K. M., Aminlou, A., Hannuksela, M. M. & Gabbouj, M., 19 Apr 2017, *2016 Picture Coding Symposium, PCS 2016*. IEEE

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

Towards better knowledge work experiences with new Ambient workspace: Concept and prototype

Olshannikova, E., Ometov, A., Anagnostaki, T., Hasan, N., Kuketaeva, A., Ahtinen, A., Olsson, T. & Koucheryavy, Y., 4 Apr 2017, *Proceedings of the 19th Conference of Open Innovations Association, FRUCT 2016*. IEEE COMPUTER SOCIETY PRESS, p. 173-181 9 p.

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

Collagen-immobilized polyimide membranes for retinal pigment epithelial cell adherence and proliferation

Teymouri, S., Calejo, M. T., Hiltunen, M., Sorkio, A. E., Juuti-Uusitalo, K., Skottman, H. & Kellomäki, M., 6 Mar 2017, In : Cogent Chemistry. 3, 1

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

Cost- and time-effective sewing patterns for embroidered passive UHF RFID tags

Brechet, N., Ginestet, G., Moradi, E., Ukkonen, L., Torres, J., Björninen, T. & Virkki, J., 1 Mar 2017, *Proceedings of IEEE 2017 International Workshop on Antenna Technology*. IEEE, p. 30-33

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

Reaction heat utilization in aluminosilicate-based ceramics synthesis and sintering

Karhu, M., Lagerbom, J., Kivikytö-Reponen, P., Ismailov, A. & Levänen, E., 1 Mar 2017, In : *Journal of Ceramic Science and Technology*. 8, 1, p. 101-112 12 p.

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

Wirelessly powered implantable system for wireless long-term monitoring of intracranial pressure

Khan, M. W. A., Björninen, T., Sydänheimo, L. & Ukkonen, L., 1 Mar 2017, *Proceedings of IEEE 2017 International Workshop on Antenna Technology*. IEEE, p. 122-124

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

Effect of Laser Power on Yield of TiO₂ Nanoparticles Synthesized by Pulsed Laser Ablation in Water

Singh, A., Vihinen, J., Frankberg, E., Hyvärinen, L., Honkanen, M. & Levänen, E., Mar 2017, In : *Journal of Ceramic Science and Technology*. 8, 1, p. 39-43 5 p.

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

1180 nm GaInNAs quantum well based high power DBR laser diodes

Viheriälä, J., Aho, A., Virtanen, H., Koskinen, M., Dumitrescu, M. & Guina, M., 24 Feb 2017, *High-Power Diode Laser Technology XV*. Zediker, M. S. (ed.). SPIE, 6 p. 100860K. (Proceedings of SPIE; vol. 10086).

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

Evolutionary multiobjective optimization for adaptive dataflow-based digital predistortion architectures

Li, L., Ghazi, A., Boutellier, J., Anttila, L., Valkama, M. & Bhattacharyya, S. S., 23 Feb 2017, In : *EAI Endorsed Transactions on Cognitive Communications*. 17, 10, e3.

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

Multi-wavelength mid-IR light source for gas sensing

Karioja, P., Alajoki, T., Cherchi, M., Ollila, J., Harjanne, M., Heinlehto, N., Suomalainen, S., Viheriälä, J., Zia, N., Guina, M., Buczyński, R., Kasztelaniec, R., Kujawa, I., Salo, T., Virtanen, S., Kluczynski, P., Sagberg, H., Ratajczyk, M. & Kalinowski, P., 20 Feb 2017, *Proc. SPIE 10110: Photonic Instrumentation Engineering IV*. SPIE, Vol. 10110. 101100P. (Proceedings of SPIE; vol. 10110).

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

Intracavity double diode structures with GaInP barrier layers for thermophotonic cooling

Tiira, J., Radevici, I., Haggren, T., Hakkarainen, T., Kivisaari, P., Lyytikäinen, J., Aho, A., Tukiainen, A., Guina, M. & Oksanen, J., 17 Feb 2017, *Proc. SPIE 10121: Optical and Electronic Cooling of Solids II*. SPIE, Vol. 10121. 1012109. (Proceedings of SPIE; vol. 10121).

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

The use of mathematical modeling for the development of a low cost fuzzy gain schedule neutralization control system

Sislian, R., da Silva, F. V., Gedraite, R., Jokinen, H. & Rajan, D. K., 4 Feb 2017, *Transactions on Engineering Technologies: World Congress on Engineering and Computer Science 2015*. Springer Singapore, p. 525-539 15 p.

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

Color-distribution similarity by information theoretic divergence for color images

Murayama, M., Oguro, D., Kikuchi, H., Huttunen, H., Ho, Y. S. & Shin, J., 17 Jan 2017, *2016 Asia-Pacific Signal and Information Processing Association Annual Summit and Conference, APSIPA 2016*. IEEE

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

Cavitation erosion, slurry erosion and solid particle erosion performance of metal matrix composite (MMC) coatings sprayed with modern high velocity thermal spray processes

Matikainen, V., Rubio, S., Ojala, N., Koivuluoto, H., Schubert, J., Houdková, S. & Vuoristo, P., 1 Jan 2017, *Materials Science and Technology Conference and Exhibition 2017, MS and T 2017: October 8-12, 2017, Pittsburgh, Pennsylvania USA*. Association for Iron and Steel Technology, AISTECH, Vol. 2. p. 1161-1163 3 p.

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

Effect of air gap on the adhesion of PET layer on cardboard substrate in extrusion coating

Suokas, E., 1 Jan 2017, *16th TAPPI European PLACE Conference 2017*. TAPPI Press, p. 529-544 16 p.

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

Novel bio-based materials for active and intelligent packaging

Lahti, J., Kamppuri, T. & Kuusipalo, J., 1 Jan 2017, *16th TAPPI European PLACE Conference 2017*. TAPPI Press, 1 p.

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

Novel equipment to simulate hot air heat sealability of packaging materials

Lahti, J., Kuusipalo, J. & Auvinen, S., 1 Jan 2017, *16th TAPPI European PLACE Conference 2017*. TAPPI Press, p. 237-248 12 p.

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

Tampere University of Technology, laboratory of materials science, paper converting and packaging technology Tampere, Finland

Kuusipalo, J. & Lahti, J., 1 Jan 2017, *16th TAPPI European PLACE Conference 2017: Basel; Switzerland; 22 May 2017 through 24 May 2017*. TAPPI Press, Vol. May-2017. 1 p.

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

A dynamical quality model to continuously monitor software maintenance

Lenarduzzi, V., Stan, A. C., Taibi, D., Tosi, D. & Venters, G., 2017, *Proceedings of the 11th European Conference on Information Systems Management, ECISM 2017*. Academic Conferences and Publishing International Limited, p. 168-178 11 p.

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

Automatic Classification of Z-ring Formation Stages at the Single Cell Level in Escherichia Coli by Machine Learning

Zare, M., Neeli-Venkata, R., Martins, L., Peltonen, S., Ruotsalainen, U. & Ribeiro, A. S., 2017, *Proceedings of the 10th International Joint Conference on Biomedical Engineering Systems and Technologies, Vol 2: Bioimaging*. Silveira, M., Fred, A., Gamboa, H. & Vaz, M. (eds.). SCITEPRESS, p. 72-76 5 p.

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

Business intelligence approach – a practical tool for competence based curriculum development

Myllärniemi, J., Helander, N., Hellsten, P., Mahlamäki, T. & Repo, S., 2017, *EDULEARN17 Proceedings. 9th International Conference on Education and New Learning Technologies: 3-5 July, 2017, Barcelona, Spain*. IATED, p. 6387-6393 17 p.

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

Challenges in the paradigm change from mobility as a self-service to mobility as a service

Pöllänen, M., Utriainen, R. & Viri, R., 2017, *Conference Proceedings 1st International Conference of Mobility as a Service: ICoMaaS, Tampere 28.-29.11.2017*. Tampere University of Technology, p. 246-265 20 p.

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

Comparing two methods for Urban Complexity calculation using Shannon-Wiener index

López Baeza, J., Cerrone, D. & Männigo, K., 2017, *Comparing two methods for Urban Complexity calculation using Shannon-Wiener index*. WIT Press, p. 369-378 10 p. (WIT Transactions on Ecology and The Environment; vol. 226).

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

Comprehensive survey of similarity measures for ranked based location fingerprinting algorithm

Minaev, G., Visa, A. & Piche, R., 2017, *Indoor Positioning and Indoor Navigation (IPIN), 2017 International Conference on*. IEEE, 4 p.

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

Computational wavelength resolution for in-line lensless holography: Phase-coded diffraction patterns and wavefront group-sparsity

Katkovnik, V., Shevkunov, I., Petrov, N. V. & Egiazarian, K., 2017, *Digital Optical Technologies 2017*. SPIE, 1033509. (Proceedings of SPIE; vol. 10335).

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

Convolutional Recurrent Neural Networks for Rare Sound Event Detection

Cakir, E. & Virtanen, T., 2017, *Proceedings of the Detection and Classification of Acoustic Scenes and Events 2017 Workshop (DCASE2017)*. Tampere University of Technology. Laboratory of Signal Processing, p. 27-31
Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific > peer-review

Dynamic laser speckle metrology with binarization of speckle patterns

Stoykova, E., Nazarova, D., Berberova, N., Gotchev, A., Ivanov, B. & Mateev, G., 2017, *19th International Conference and School on Quantum Electronics: Laser Physics and Applications*. SPIE, 102260R. (Proceedings of SPIE; vol. 10226).
Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific > peer-review

Editorial: Experiments in an Organisational Context

Christiansen, J., Birkinshaw, J., Le Massaon, P. & Mäkinen, S., 2017, In : CERN IdeaSquare Journal of Experimental Innovation. 1, 2, 2 p.
Research output: Contribution to journal > Editorial > Scientific

Educating Computer Science Educators Online - A Racket MOOC for Elementary Math Teachers of Finland

Partanen, T., Niemelä, P., Mannila, L. & Poranen, T., 2017, *Proceedings of the 9th International Conference on Computer Supported Education*. SCITEPRESS - Science and Technology Publications, p. 47-58
Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific > peer-review

Effects of Social Media on Consumers' Sports Brand Experiences and Loyalty

Munnukka, J., Karjaluohto, H., Mahlamäki, T. & Hokkanen, V., 2017, *Creating Marketing Magic and Innovative Future Marketing Trends: Proceedings of the 2016 Academy of Marketing Science (AMS) Annual Conference*. Stieler, M. (ed.). Springer International Publishing, p. 1051-1064 14 p. (Developments in Marketing Science: Proceedings of the Academy of Marketing Science).
Research output: Chapter in Book/Report/Conference proceeding > Chapter > Scientific > peer-review

Emotion-Gauge: Analyzing affective experiences in B2B customer journeys

Andersson, T., Boedeker, M. & Vuori, V., 2017, *Strategic Innovative Marketing : 5th IC-SIM, Athens, Greece, September 23-26, 2016*. Kavoura, A., Sakas, D. & Tomaras, P. (eds.). Springer, p. 31-36 6 p. (Springer Proceedings in Business and Economics).
Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific > peer-review

Energiätehoisuusinformaatio palvelurakennuksissa

Sorri, J., Heljo, J., Uotila, U. & Ruusala, A., 2017, *Rakennusfysiikka 2017: Uusimmat tutkimustulokset ja hyvät käytännön ratkaisut : 24.-26.10.2017, Tampere*. Tampere: Tampereen teknillinen yliopisto, Rakennustekniikka, Rakennusfysiikka, Vol. 1. p. 325-330 6 p. (Tampereen teknillinen yliopisto. Rakennustekniikka. Rakennusfysiikka.).
Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific

Energiätehoisuus on entistä enemmän sähkötehon hallintaa

Heljo, J., Sorri, J. & Harsia, P., 2017, *Rakennusfysiikka 2017: Uusimmat tutkimustulokset ja hyvät käytännön ratkaisut: 24.-26.10.2017, Tampere*. Vinha, J. & Kivioja, H. (eds.). Tampereen teknillinen yliopisto, Rakennustekniikka, Rakennusfysiikka, Vol. 1. p. 281-286 6 p. (Tampereen teknillinen yliopisto. Rakennustekniikka. Rakennusfysiikka.).
Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific

Experiences from development of security audit criteria

Kelo, T. & Eronen, J., 2017, *Proceedings of the 16th European Conference on Cyber Warfare and Security, ECCWS 2017*. TAPPI Press; Curran Associates, Inc, p. 208-215 8 p.
Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific > peer-review

Experimenting traditional and modern reliability models in a 3-years european software project

Tosi, D., Lenarduzzi, V., Morasca, S. & Taibi, D., 2017, *Proceedings of the 11th European Conference on Information Systems Management, ECISM 2017*. Academic Conferences and Publishing International Limited, p. 304-314 11 p.
Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific > peer-review

Eye tracking studies focusing on mathematics: a literature review

Perttula, A., 2017, *INTED2017. The 11th annual International Technology, Education and Development Conference: Valencia, 6th - 8th of March, 2017..* IATED Academy, 2166-2173

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

From theories to game mechanics: Developing a game for training rational numbers

Kiili, K., 2017, *Proceedings of the 11th European Conference on Games Based Learning, ECGBL 2017.* Academic Conferences and Publishing International Limited, p. 328-334 7 p.

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

Gamification at School

Perttula, A. & Tuomi, P., 2017, *EDULEARN17: The 9th International Conference on Education and New Learning Technologies.* p. 9334-9340

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

Glass and Glass-Ceramic Scaffolds: Manufacturing Methods and the Impact of Crystallization on In-Vitro Dissolution

Nommeots-Nomm, A. & Massera, J., 2017, *Scaffolds in Tissue Engineering - Materials, Technologies and Clinical Applications.* InTech Open Access Publisher, 19 p.

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

Identification of fundamental requirements for ideal metamodeling framework in additive manufacturing

Mokhtarian, H., Coatanea, E., Paris, H. & Vihinen, J., 2017, *Proceedings of the 2nd Annual SMACC Research Seminar 2017.* Aaltonen, J., Virkkunen, R., Koskinen, K. T. & Kuivanen, R. (eds.). p. 29-31 3 p.

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

Inter-organizational knowledge sharing barriers within an sme network: a case study

Meriläinen, K., Vuori, V. & Helander, N., 2017, *Proceedings of the 18th European Conference on Knowledge Management: Barcelona, Spain, 7-8 September 2017.* Reading, UK: Academic Conferences and Publishing International Limited, p. 690-697 8 p.

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

Manipulating Superparamagnetic Microparticles with an Electromagnetic Needle

Cenev, Z., Zhang, H., Sariola, V., Rahikkala, A., Liu, D., Santos, H. A. & Zhou, Q., 2017, In : *Advanced Materials Technologies.* 3, 1, 1700177.

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

Modeling the process of dynamic resource sharing between LTE and NB-IoT services

Begishev, V., Samuylov, A., Moltchanov, D. & Samouylov, K., 2017, *Distributed Computer and Communication Networks - 20th International Conference, DCCN 2017, Proceedings.* Springer Verlag, p. 1-12 12 p. (Communications in Computer and Information Science; vol. 700).

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

Multilag Frequency Estimation for High-Order BOC Signals in the Acquisition Stage

Gomez Casco, D., Lohan, E-S., Lopez-Salcedo, J. A. & Seco-Granados, G., 2017, *2016 8th ESA Workshop on Satellite Navigation Technologies and European Workshop on GNSS Signals and Signal Processing (NAVITEC).* IEEE

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

Personality's effect on peer assessment ability in case method context

Mahlamäki, T., Valkeinen, T., Myllärniemi, J., Hellsten, P. & Repo, S., 2017, *EDULEARN17 Proceedings. 9th International Conference on Education and New Learning Technologies: 3-5 July, 2017, Barcelona, Spain.* IATED, p. 6401-6405 5 p. (Edulearn proceedings).

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

Perspectives on tools and applications supporting co-creation in knowledge work

Okkonen, J. & Vuori, V., 2017, *Proceedings of the 12th International Forum on Knowledge Asset Dynamics 2017: 7-9 Jun. 2017, St. Petersburg, Russia.* p. 369-376 8 p. (Proceedings IFKAD).

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

Photo-acoustic Spectroscopy of Resonant Absorption in III-V Semiconductor Nanowires

Hakkarainen, T., Leahu, G., Petronijevic, E., Belardini, A., Centini, M., Li Voti, R., Koivusalo, E., Rizzo Piton, M., Guina, M. & Sibilia, C., 2017, *CLEO: Applications and Technology 2017: San Jose, California United States 14–19 May 2017*. The Optical Society; OSA, JTh2A.48

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

Picosecond MOPA with ytterbium doped tapered double clad fiber

Filippov, V., Vorotynskii, A., Noronen, T., Gumenyuk, R., Chamorovskii, Y. & Golant, K., 2017, *Fiber Lasers XIV: Technology and Systems*. SPIE, Vol. 10083. 6 p. 100831H. (Proceedings of SPIE; no. 10083).

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

Real-Time Impedance-Based Stability Assessment of Grid Converter Interactions

Messo, T., Luhtala, R., Roinila, T., Yang, D., Wang, X. & Blaabjerg, F., 2017, *IEEE Workshop on Control and Modeling for Power Electronics*. 8 p.

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

Reinventing organisational creativity and innovation through adapting a service-based working culture

Ketonen-Oksi, S., 2017, *Integrating arts and creativity into business practice*. Schiuma, G. & Lerro, A. (eds.). IGI Global, p. 1-20 20 p.

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

Review on mobility as a service in scientific literature

Utriainen, R. & Pöllänen, M., 2017, *Conference Proceedings 1st International Conference on Mobility as a Service: ICoMaaS, Tampere 28.-29.11.2017*. Tampere University of Technology, p. 141-155 15 p. 15

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

Samsung and Volkswagen crisis communication in Facebook and Twitter: A comparative study

Zhang, B., Veijalainen, J. & Kotkov, D., 2017, *WEBIST 2017 - Proceedings of the 13th International Conference on Web Information Systems and Technologies*. SCITEPRESS, p. 312-323 12 p.

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

Sata vuotta Suomen suurimmasta lavantautiepidemiasta

Juuti, P. & Rajala, R., 2017, In : *Vesitalous*. 2017, 1, p. 12-14 3 p.

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

Securing the flow of information in renovation projects: Sustainable synergies from buildings to the urban scale

Marttila, T., Annala, P., Suonketo, J., Kero, P. & Pentti, M., 2017, In : *PROCEDIA ENVIRONMENTAL SCIENCES*. 38, p. 228-233 6 p.

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

Suomen vesihuollon kehitys ja opit kansainvälisessä kontekstissa

Katko, T. S., 2017, In : *Vesitalous*. 58, 1, p. 8-11 4 p.

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

The role of base substrate on barrier and convertability properties of Water based barrier coated (WBBC) paper and paperboard

Miettinen, P., Ahokas, M., Engström, T., Heinonen, J. & Auvinen, S., 2017, *Paper Conference and Trade Show, PaperCon 2017: Renew, Rethink, Redefine the Future, Minneapolis, Minnesota, USA, 23-26 April 2017*. TAPPI Press, Vol. 1. p. 220-232 13 p.

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

The role of performance measurement in supplier-buyer value-creation

Jääskeläinen, A., Thitz, O. & Heikkilä, J., 2017, *Proceedings of 9th Conference on Performance Measurement and Management Control: 13-15 September 2017, Nice, France*. EIASM, (Conference on Performance Measurement and Management Control).

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

The Web as a software platform: Ten years later

Taivalsaari, A. & Mikkonen, T., 2017, *WEBIST 2017 - Proceedings of the 13th International Conference on Web Information Systems and Technologies*. SCITEPRESS, p. 41-50 10 p.

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

Three-color vector nematicon

Laudyn, U. A., Kwaśny, M., Karpierz, M. A. & Assanto, G., 2017, In : *Photonics Letters of Poland*. 9, 2, p. 36-38 3 p.

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

Utilizing knowledge networks in virtual or augmented reality solution creation

Vanhalakka, J., Ilvonen, I. & Väättäjä, H., 2017, *Proceedings of the 18th European Conference on knowledge Management ECKM 2017: 7-8 September 2017, Barcelona, Spain*. Marimon, F., Mas-Machuca, M., Berbegal-Mirabent, J. & Bastida, R. (eds.). Academic Conferences and Publishing International, p. 1008-1014 7 p.

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

Valkea kaupunki, mustat vedet

Juuti, P. & Rajala, R., 2017, In : *Vesitalous*. 2017, 1, p. 15-17 3 p.

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

VisualLabel: An Integrated Multimedia Content Management and Access Framework

Ahmad, I., Rantanen, P., Sillberg, P., Laaksonen, J., Liu, S., Forss, T., Malik, A., Nieminen, M., Shetty, R., Ishikawa, S., Kallio, J., Saarinen, J. P., Gabbouj, M. & Soini, J., 2017, *The Proceedings of the 27th International Conference on Information Modelling and Knowledge Bases, EJC 2017: June 5-9, 2017, Krabi, Thailand*. p. 332-353 22 p.

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

Web-user-interface system utilizing rhmei and open data for a water quality analyzer

Sillberg, P., Veasommai, C., Soini, J. & Jaakkola, H., 2017, *The Proceedings of the 27th International Conference on Information Modelling and Knowledge Bases, EJC 2017: June 5-9, 2017, Krabi, Thailand*. Sornlertlamvanich, V., Chawakitchareon, P., Hansuebsai, A., Koopipat, C., Kiyoki, Y., Kangassalo, H., Thalheim, B. & Yoshida, N. (eds.). Sirindhorn International Institute of Technology, Thammasat University, Thailand, p. 444-451 8 p.

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

Re-inventing organizational creativity and innovation through adopting a service-based working culture

Ketonen-Oksi, S., 28 Dec 2016, *Integrating Art and Creativity into Business Practice*. IGI Global, p. 1-20 20 p.

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

Assessing business learning by analysing ERP simulation log files

Nisula, K. & Pekkola, S., 10 Dec 2016, *AIS SIGED 2016 Conference on IS education and Research. : Dublin, Ireland, December 10-11, 2016*. Dublin

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

D2D communications for mobile devices: Technology overview and prototype implementation

Devos, M., Ometov, A., Mäkitalo, N., Aaltonen, T., Andreev, S. & Koucheryavy, Y., 5 Dec 2016, *8th International Congress on Ultra Modern Telecommunications and Control Systems and Workshops (ICUMT)*. IEEE, p. 124-129

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

Improving reliability of replicated message delivery in cellular machine-type communications

Galinina, O., Turlikov, A., Andreev, S. & Koucheryavy, Y., 5 Dec 2016, *2016 8th International Congress on Ultra Modern Telecommunications and Control Systems and Workshops (ICUMT)*. IEEE, p. 106-110 5 p.

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

Business models in the circular economy: a structured multiple-case analysis

Ranta, V., Aarikka-Stenroos, L. & Mäkinen, S., Dec 2016, *Proceedings of ISPIM Innovation Summit, Kuala Lumpur, Malaysia. The International Society for Professional Innovation Management (ISPIM): 4-7 December 2016*.

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

How to develop a new innovation education tool: case of impact canvas

Aarikka-Stenroos, L., Boedeker, S., Köppä, L. & Langwaldt, J., Dec 2016, *In the Proceedings of ISPIM Innovation Summit. The International Society for Professional Innovation Management (ISPIM). : 4-7 December 2016, Kuala Lumpur, Malaysia.*

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

Multi-Objective Optimization of Fin Array Heat Sinks

Lampio, K. & Karvinen, R., 21 Nov 2016, *Therminic 2016: 22nd international workshop Thermal investigations of ICs and Systems*. IEEE, 4 p.

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

Bioimpedance measurement system for evaluation of the status of wound healing

Kekonen, A., Bergelin, M., Eriksson, J-E., Ylänen, H., Kielosto, S. & Viik, J., 17 Nov 2016, *2016 15th Biennial Baltic Electronics Conference (BEC)*. IEEE, p. 175-178 4 p.

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

Pedestrian Dead Reckoning with Particle Filter for Handheld Smartphone

Collin, J., Perttula, A., Parviainen, J., Racko, J. & Brida, P., 17 Nov 2016, *2016 International Conference on Indoor Positioning and Indoor Navigation (IPIN)*. IEEE, 7 p.

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

Project types and industrial collaboration in project-based learning

Systä, K., Vuori, M., Järvinen, H-M., Ahtee, T. & Sten, H., 12 Nov 2016, *Proceedings of SEFI 2016 annual conference*. Järvinen, H-M. & Clark, R. (eds.). Tampere / Brussels: European Society for Engineering Education SEFI, 11 p.

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

A Survey of People Movement Analytics Studies in the Context of Smart Cities

Lohan, E-S., Kauppinen, T. & Debnath, S. B. C., 10 Nov 2016, *Proceedings of the FRUCT'19*. p. 151-158

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

Continuum approach for modeling fatigue in amorphous glassy polymers. Applications to the investigation of damage mechanisms in polycarbonate

Holopainen, S. & Kouhia, R., 28 Oct 2016.

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

Terahertz band communications: Applications, research challenges, and standardization activities

Petrov, V., Pyattaev, A., Moltchanov, D. & Koucheryavy, Y., 20 Oct 2016, *2016 8th International Congress on Ultra Modern Telecommunications and Control Systems and Workshops (ICUMT)*. IEEE, p. 1-8 8 p.

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

Charged cable-system ESD event

Tamminen, P. & Viheriäkoski, T., 18 Oct 2016, *2016 38th Electrical Overstress/Electrostatic Discharge Symposium (EOS/ESD)*. IEEE

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

Charge relaxation of slowly dissipative polymers

Viheriäkoski, T., Kärjä, E., Hillberg, J. & Tamminen, P., 18 Oct 2016, *2016 38th Electrical Overstress/Electrostatic Discharge Symposium (EOS/ESD)*. IEEE, p. 1-9 9 p.

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

A coordination-based brokerage architecture for multi-cloud resource markets

Aldawood, S., Fowley, F., Pahl, C., Taibi, D. & Liu, X., 14 Oct 2016, *Proceedings - 2016 4th International Conference on Future Internet of Things and Cloud Workshops, W-FiCloud 2016*. Institute of Electrical and Electronics Engineers Inc., p. 7-14 8 p.

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

Modeling the utilization of a multi-tenant band in 3GPP LTE system with Licensed Shared Access

Gudkova, I., Markova, E., Masek, P., Andreev, S., Hosek, J., Yarkina, N., Samouylov, K. & Koucheryavy, Y., 1 Oct 2016, *2016 8th International Congress on Ultra Modern Telecommunications and Control Systems and Workshops (ICUMT)*. IEEE, p. 119-123 5 p.

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

Mid-Infrared Sources for Ultra-Broadband Cavity Enhanced Spectroscopy

Amiot, C. G., Ryczkowski, P., Aalto, A., Toivonen, J. & Genty, G., Oct 2016, *Frontiers in Optics 2016*. OSA, 2 p. FTh5A.3

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

Modelling and Simulation of Radial Spruce Compression to Optimize Energy Efficiency in Mechanical Pulping

Moilanen, C., Björkqvist, T., Ovaska, M., Koivisto, J., Miksic, A., Engberg, B., Salminen, L., Saarenrinne, P. & Alava, M., 26 Sep 2016, *2016 International Mechanical Pulping (IMPC) Conference Proceedings, Monday, September 26 - Wednesday, September 28, Jacksonville, Florida, USA*. USA: TAPPI, p. 53-70 18 p. 1.3

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

Sosiaalinen media brändi- ja asiakastiedon lähteenä

Jussila, J., Helander, N., Vuori, V. & Okkonen, J., 23 Sep 2016, *TiedeAreena 2016*. Tuomi, P. (ed.). Pori: Tampereen teknillinen yliopisto, Porin laitos, Vol. 11. p. 55-56 2 p.

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

Students' Use of Learning Tools and Tool Types: Solving Self-Study Assignments on an Online Platform

Myllykoski, T., Pohjolainen, S. & Ali-Löyty, S., 16 Sep 2016, *SEFI 2016 Annual Conference Proceedings: Engineering Education on Top of the World: Industry University Cooperation*. European Society for Engineering Education SEFI

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

Developing Learning and Teaching in Engineering Mathematics with and without Technology

Joutsenlahti, J., Ali-Löyty, S. & Pohjolainen, S., 15 Sep 2016, *SEFI 2016 Annual Conference Proceedings: Engineering Education on Top of the World: Industry University Cooperation*. European Society for Engineering Education SEFI

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

Electronic Exam in Electronics Studies

Laine, K., Sipilä, E., Anderson, M. & Sydänheimo, L., 15 Sep 2016, *SEFI Annual Conference 2016: Engineering Education on Top of the World: Industry University Cooperation*. 10 p.

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

Implementing of Activating Learning Strategy for a Course on Electric Drives

Rekola, J. & Suntio, T., 14 Sep 2016, *SEFI 2016 Annual Conference Proceedings: Implementing of Activating Learning Strategy for a Course on Electric Drives*. European Society for Engineering Education SEFI, p. 1-8 8 p.

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

Affective experiences and student engagement in higher education

Helander, N., Boedeker, M., Hellsten, P., Jussila, J., Myllärniemi, J. & Tukiainen, M., 13 Sep 2016, *44th Annual Conference Of The European Society For Engineering Education: 12-15 September 2016, Tampere, Finland*. Tampere

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

Students as mystery shoppers: lowering knowledge sharing barriers in higher education

Tukiainen, M. O., 13 Sep 2016, *44th Annual Conference Of The European Society For Engineering Education: 12-15 September 2016, Tampere, Finland*. Tampere

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

Industrial impact on topics and types of Master's theses: Empirical study of software engineering theses made in 1990-2016

Järvinen, H-M. & Mikkonen, T., 12 Sep 2016, *Proceedings of SEFI 2016 Annual Conference*. Järvinen, H-M. & Clark, R. (eds.). European Society for Engineering Education SEFI, 11 p.

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

New introductory courses and teacher tutoring: Keys to an efficient beginning for university studies in engineering

Ketola, S., Sipilä, E., Pajarre, E. & Takala, J., 12 Sep 2016, *SEFI Annual Conference 2016: Engineering Education on Top of the World: Industry University Cooperation*.

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

Towards better learning by increased student engagement

Kuula, P. H., Leppänen, M. M. & Penttilä, M. E., 12 Sep 2016, *Proceedings of the 44th SEFI Annual Conference 2016: 12th-15th September 2016, Tampere, Finland*. Niemi, T. & Järvinen, H-M. (eds.). Tampere: European Society for Engineering Education SEFI, 10 p.

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

Handheld wireless authentication key and secure documents storage for the Internet of Everything

Komar, M., Edelev, S. & Koucheryavy, Y., 6 Sep 2016, *Proceedings of the 18th Conference of Open Innovations Association FRUCT and Seminar on Information Security and Protection of Information Technolog, FRUCT-ISPIT 2016*. IEEE COMPUTER SOCIETY PRESS, p. 120-130 11 p.

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

Validating information security framework for offloading from LTE onto D2D links

Orsino, A. & Ometov, A., 6 Sep 2016, *Proceedings of the 18th Conference of Open Innovations Association FRUCT and Seminar on Information Security and Protection of Information Technolog, FRUCT-ISPIT 2016*. IEEE COMPUTER SOCIETY PRESS, p. 241-247 7 p.

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

Knowledge barriers in university-industry knowledge networks

Vuori, V. & Helander, N., 2 Sep 2016, *17th European Conference on Knowledge Management, At Belfast, Northern Ireland, UK.: 1-2 Sep. 2016*. Academic Conferences and Publishing International Limited Reading, p. 952-959 8 p.

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

DCASE 2016 Acoustic Scene Classification Using Convolutional Neural Networks

Valenti, M., Diment, A., Parascandolo, G., Squartini, S. & Virtanen, T., 1 Sep 2016, *Proceedings of the Detection and Classification of Acoustic Scenes and Events 2016 Workshop (DCASE2016)*. Tampere University of Technology. Department of Signal Processing

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

Increasing the environment-awareness of rake beamforming for directive acoustic sources

Pertilä, P. & Brutti, A., 1 Sep 2016, *15th International Workshop on Acoustic Signal Enhancement (IWAENC)*.

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

Capturing knowledge from research projects: From project reports to storytelling

Machado, M. A., Magnier-Watanabe, R. & Peltola, T., Sep 2016, *2016 Portland International Conference on Management of Engineering and Technology (PICMET)*. IEEE, p. 2048-2057 10 p.

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

Finnish Engineering Education for Sustainable Development in 2016 - Call for collaborative learning

Takala, A. & Korhonen-Yrjänheikki, K., Sep 2016, *SEFI 2016 Annual Conference Proceedings: Engineering Education on Top of the World: Industry University Cooperation*. European Society for Engineering Education SEFI

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

Integrating mobile orienteering to team forming activity in a software engineering course

Väätäjä, H. & Ahtinen, A., Sep 2016, *SEFI 2016 Annual Conference Proceedings: Engineering Education on Top of the World: Industry University Cooperation*. European Society for Engineering Education SEFI

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

MathCheck: a tool for checking math solutions in detail

Valmari, A. & Kaarakka, T., Sep 2016, *SEFI 2016 Annual Conference Proceedings: Engineering Education on Top of the World: Industry University Cooperation*. European Society for Engineering Education SEFI

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

Strengthening student engagement by integrating the contents of a flipped course around a well-confined real life theme

Kangas, J. & Lunden, O-P., Sep 2016, *SEFI 2016 Annual Conference Proceedings: Engineering Education on Top of the World: Industry University Cooperation*. 9 p.

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

icellfusion: Tool for fusion and analysis of live-cell images from time-lapse multimodal microscopy

Santinha, J., Gupta, A., Martins, L., Annala, T., Häkkinen, A., Mora, A., Lloyd-Price, J., Ribeiro, A., Oliveira, S. M. D. & Fonseca, J. R., 30 Aug 2016, *Biometrics: Concepts, Methodologies, Tools, and Applications*. IGI Global, p. 806-834 29 p.

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

Learning Maths with mobiles: Cross-cultural design of technology with experiences in South-Africa and Finland

Vainio, T. & Walsh, T., 18 Aug 2016, *Blended Learning: Concepts, Methodologies, Tools, and Applications*. IGI Global, Vol. 4. p. 741-759 19 p.

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

Simulation of photon-photon resonance enhanced direct modulation bandwidth of DFB lasers

Dumitrescu, M., Uusitalo, T., Virtanen, H., Laakso, A., Bardella, P. & Montrosset, I., 17 Aug 2016, *16th International Conference on Numerical Simulation of Optoelectronic Devices, NUSOD 2016*. IEEE, p. 147-148 2 p.

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

Simulation studies of DFB laser longitudinal structures for narrow linewidth emission

Virtanen, H., Uusitalo, T. & Dumitrescu, M., 17 Aug 2016, *16th International Conference on Numerical Simulation of Optoelectronic Devices, NUSOD 2016*. IEEE, p. 153-154 2 p.

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

Transverse structure optimization of laterally-coupled ridge waveguide DFB lasers

Uusitalo, T., Virtanen, H. & Dumitrescu, M., 17 Aug 2016, *16th International Conference on Numerical Simulation of Optoelectronic Devices, NUSOD 2016*. IEEE, p. 79-80 2 p. 7547038

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

Home Network Security: Modelling Power Consumption to Detect and Prevent Attacks on Homenet Routers

Silverajan, B., Vajaranta, M. & Kolehmainen, A., 4 Aug 2016, *Proceedings of the 11th Asia Joint Conference on Information Security (AsiaJCIS 2016), Fukuoka, Japan, August 4-5, 2016*. IEEE, p. 9-16

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

Implementation Experiences and Design Challenges for Resilient SDN Based Secure WAN Overlays

Vajaranta, M., Kannisto, J. & Harju, J., 4 Aug 2016, *2016 11th Asia Joint Conference on Information Security (AsiaJCIS)*. IEEE, p. 17-23 7 p.

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

Observing Hidden Service Directory Spying with a Private Hidden Service Honeynet

Nurmi, J., Kannisto, J. & Vajaranta, M., 4 Aug 2016, *Proceedings of the 11th Asia Joint Conference on Information Security (AsiaJCIS 2016), Fukuoka, Japan, August 4-5, 2016*. p. 55-59

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

Third places and user preferences – affordances in the cities

Nenonen, S., Rahtola, R. & Kojo, I., 1 Aug 2016, *Proceedings of CFM's Second Nordic Conference: Facilities Management Research and Practice, 29-30 AUGUST 2016, Denmark*. Jensen, P. A. (ed.). p. 17-25 9 p.

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

Study on the capability to measure stakeholders' brand experiences with a consumer-centric measurement framework
Saari, U. & Mäkinen, S., 20 Jul 2016, *Global Marketing Conference Proceedings 2016 Hong Kong, July 21 - 24: Track: Stakeholders-brand Relationships*. p. 1034-1035 2 p. (Proceedings of the Global Marketing Conference).
Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Teoriaa ja kokemuksia arvioinnista MOOCien aikakaudella

Helander, N. & Myllylä, M., 11 Jul 2016, In : TAMPEREEN AMMATTIKORKEAKOULUN JULKAISUJA. SARJA B, RAPORTTEJA. p. 70-77 7 p.
Research output: Contribution to journal › Article › Scientific › peer-review

Power bases in lead organization network governance form: a multi-level approach

Suominen, A. & Mäenpää, S., 7 Jul 2016.
Research output: Other conference contribution › Paper, poster or abstract › Scientific

Customer value management framework for supply chains

Ala-Maakala, M. & Liimatainen, H., 4 Jul 2016, *The proceedings of 21st international symposium on logistics (ISL 2016): Sustainable transport and supply chain innovation, Kaohsiung, Taiwan 3-6 July 2016*. Pawar, K. (ed.). p. 447-456 10 p.
Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Image-based characterization of the pulp flows

Sorokin, M., Strokina, N., Eerola, T., Lensu, L., Karttunen, K. & Kalviainen, H., 1 Jul 2016, In : *Pattern Recognition and Image Analysis*. 26, 3, p. 630-637 8 p.
Research output: Contribution to journal › Article › Scientific › peer-review

In vivo single-molecule dynamics of transcription of the viral T7 Phi 10 promoter in Escherichia coli

Goncalves, N. S. M., Martins, L., Tran, H., Oliveira, S. M. D., Neeli-Venkata, R., Fonseca, J. & Ribeiro, A. S., 26 Jun 2016, *The 8th International Conference on Bioinformatics, Biocomputational Systems and Biotechnologies (BIOTECHNO2016)*. IARIA, p. 9-15
Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Using a synthetic probe to study the robustness of the segregation process of protein aggregates in Escherichia coli

Ribeiro, A. & Oliveira, S., 26 Jun 2016, *The 8th International Conference on Bioinformatics, Biocomputational Systems and Biotechnologies (BIOTECHNO2016)*. IARIA, p. 21-22
Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Framework for optimization and scheduling of a copper production plant

Suominen, O., Mörsky, V., Ritala, R. & Vilkkö, M., 25 Jun 2016, *26th European Symposium on Computer Aided Process Engineering, 2016*. Elsevier Science B.V., Vol. 38. p. 1243-1248 6 p. (Computer Aided Chemical Engineering).
Research output: Chapter in Book/Report/Conference proceeding › Chapter › Scientific › peer-review

Demolished buildings: Empirical evidence on types, ages and construction materials

Huuhka, S., 22 Jun 2016, *CESB16 - Central Europe towards Sustainable Building 2016: Innovations for Sustainable Future, June 22-24, 2016, Prague*. Hajek, P., Tywoniak, J., Lupisek, A. & Sojkova, K. (eds.). Prague: Czech Technical University in Prague, p. 1105-1112 8 p.
Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Demolition Rates of Buildings with Different Functions and Construction Materials

Huuhka, S., 21 Jun 2016, *YRSB16 - iiSBE Forum of Young Researchers in Sustainable Building 2016: Innovations for Sustainable Future June 21, 2016, Prague*. Zelezna, J., Hajek, P., Tywoniak, J., Lupisek, A. & Sojkova, K. (eds.). Prague: Czech Technical University in Prague, p. 301-307 7 p.
Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Knowledge integration method development for multi-stakeholder innovation

Mäenpää, S., Suominen, A. & Breite, R., 21 Jun 2016, *Proceedings of The XXVII ISPIM Conference 2016 Porto, Portugal - 19-22 June 2016 : Blending Tomorrow's Innovation Vintage*.
Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Exploring how brand experience measurement could be used for integrating marketing and R&D

Saari, U. A. & Mäkinen, S. J., 19 Jun 2016, *XXVII ISPIM Innovation Conference 2016: Porto, 19-22 June, 2016*. 14 p.
Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Multiple facets of innovation and business ecosystem research: the foci, methods and future agenda

Aarikka-Stenroos, L., Peltola, T., Rikkiev, A. & Saari, U., 19 Jun 2016, *XXVII ISPIM Innovation Conference 2016: Porto, 19-22 June, 2016*. p. 1-33

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

Being a start-upper in Italy: Motivations, obstacles and success factors

Michele Felicetti, A., Ammirato, S., Raso, C., Aramo-Immonen, H. & Jussila, J., 15 Jun 2016, *Proceedings of the 11th forum on knowledge asset dynamics: Towards a new architecture of knowledge: big data, culture and creativity*. Dresden, p. 1370-1383 14 p. 182

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

Customer lifetime value in manufacturing services

Stormi, K., Laine, T. & Suomala, P., 15 Jun 2016, *Proceedings of the Manufacturing Accounting Research Conference 2016: Lisbon, Portugal, June 15-17, 2016*. Belgium: European Institute for Advanced Studies in Management EIASM

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

Does Strategic and Innovative Fit Indicate Smart Social Media use in a Company?

Jussila, J., Aramo-Immonen, H., Rouvari, O., Porkka, P. & Ammirato, S., 15 Jun 2016, *Proceedings of the 11th International Forum on Knowledge Asset Dynamics: Towards a New Architecture of Knowledge: Big Data, Culture and Creativity, Dresden -Germany 15-17 June 2016*. Dresden, p. 1973-1983 11 p. 249

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

Management accounting and new service development under servitization: literature review and case studies

Tenucci, A. & Laine, T., 15 Jun 2016, *Proceedings of the Manufacturing Accounting Research Conference 2016: Lisbon, Portugal, June 15-17, 2016*.

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

Management accounting in managerial work: engaging facts and feelings in decision making

Saukkonen, N., Laine, T. & Suomala, P., 15 Jun 2016, *Proceedings of the Manufacturing Accounting Research Conference 2016: Lisbon, Portugal, June 15-17, 2016*. European Institute for Advanced Studies in Management EIASM, (Proceedings of the Manufacturing Accounting Research Conference).

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

Improving the Situation Awareness of DSOs in Major Disturbances by Visualizing the State of Mobile Networks

Haapanen, J., Krohns-Välimäki, H. & Verho, P., 14 Jun 2016, *CIREW Workshop 2016*.

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

Adapting service-based working culture as the key driver for organisational creativity and innovation

Ketonen-Oksi, S., 10 Jun 2016, *Towards a new architecture of knowledge : Big Data, culture and creativity: IFKAD 2016-11th International Forum on Knowledge Asset Dynamics, Dresden 15-17.6.2016, Germany*.

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

Enablers and Restraints of Knowledge Work – Does profession make a difference?

Helander, N., Okkonen, J., Vuori, V., Paavilainen, N. & Kujala, J., 10 Jun 2016, *Towards a new architecture of knowledge : Big Data, culture and creativity: IFKAD 2016-11th International Forum on Knowledge Asset Dynamics, Dresden 15-17.6.2016, Germany*. p. 40-52 13 p.

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

Single-frequency 571nm VECSEL for photo-ionization of magnesium

Burd, S. C., Leinonen, T., Penttinen, J. P., Allcock, D. T. C., Slichter, D. H., Srinivas, R., Wilson, A. C., Guina, M., Leibfried, D. & Wineland, D. J., 2 Jun 2016, *Proceedings of SPIE: Vertical External Cavity Surface Emitting Lasers (VECSELs) VI*. San Francisco: SPIE, Vol. 9734. 8 p. 973411. (SPIE Conference Proceedings).

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

Data including GROMACS input files for atomistic molecular dynamics simulations of mixed, asymmetric bilayers including molecular topologies, equilibrated structures, and force field for lipids compatible with OPLS-AA parameters

Róg, T., Orłowski, A., Llorente, A., Skotland, T., Sylvänne, T., Kauhanen, D., Ekroos, K., Sandvig, K. & Vattulainen, I., 1 Jun 2016, In : *Data in Brief*. 7, p. 1171-1174 4 p.

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

Practice of project control under different levels of complexity in engineering projects

Vuorinen, L. & Martinsuo, M., 1 Jun 2016, *EURAM (European Academy of Management) conference 2016: Manageable cooperation? June 1-4, 2016 Paris*. 30 p.

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

Car Type Recognition with Deep Neural Networks

Huttunen, H., Shokrollahi Yancheshmeh, F. & Chen, K., Jun 2016, *2016 IEEE Intelligent Vehicles Symposium, IV 2016*. IEEE, p. 1115-1120

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

Disruptive innovation in ecosystems: Path-creation and institutional barriers

Ritala, P. & Aarikka-Stenroos, L., Jun 2016, *XXVI ISPIM Conference: Porto, Portugal (2016) Blending Tomorrow's Innovation Vintage.: The International Society for Professional Innovation Management, Jun. 2016*. Manchester: International Society for Professional Innovation Management ISPIM, p. 1-16 16 p.

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

Electricity Distribution Network Tariffs - Present Practices, Future Challenges and Development Possibilities

Lummi, K., Rautiainen, A., Järventausta, P., Heine, P., Lehtinen, J. & Hyvärinen, M., Jun 2016, *CIGRE Workshop 2016*. 4 p.

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

Handling exceptional situations in a distribution network congestion management algorithm

Kulmala, A. & Repo, S., Jun 2016, *CIGRE Workshop 2016*. Helsinki, Finland

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

In-band-pumped mode-locked Ho:YAG ceramic laser at 2.1 μm

Wang, Y., Lan, R., Mateos, X., Li, J., Pan, Y., Suomalainen, S., Härkönen, A., Guina, M., Griebner, U. & Petrov, V., Jun 2016, *2016 Conference on Lasers and Electro-Optics (CLEO)*. IEEE, p. 1-2 2 p.

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

Incremental service innovations in a manufacturing firm's delivery chain

Nenonen, S., Vaittinen, E. & Martinsuo, M., Jun 2016, *23rd Innovation and Product Development Management Conference (IPDMC): Glasgow, U. K. June 12-14, 2016*. (Innovation and Product Development Management Conference).

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

Service orientation and innovation in the strategies of manufacturing SMEs

Martinsuo, M. & Väliäho, V., Jun 2016, *23rd Innovation and Product Development Management Conference (IPDMC): 12-14 June, 2016, Glasgow, U.K.*. EIASM, 17 p.

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

Parameters Affecting the Upcycling of Waste Cotton and PES/CO Textiles

Vats, S. & Rissanen, M., 30 May 2016, In : *Recycling*. 1, 1, p. 166-177 12 p.

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

Radical programmes for developing the EU residential building sectors as exemplified by Finland and the Netherlands

Oostra, M. & Huovinen, P., 28 May 2016, *Proceedings of CIB World Building Congress 2016, May 30 - June 3, 2016 Tampere, Finland: Creating built environments of new opportunities*. Tampere: Tampere University of Technology. Department of Civil Engineering, Vol. I. p. 17-28 12 p.

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

Relevance of five generic business ideation approaches vis-a-vis contexts embedded within construction markets

Huovinen, P., 28 May 2016, *Proceedings of the CIB World Building Congress 2016, May 30 - June 3, 2016, Tampere, Finland: Advancing products and services*. Achour, N. (ed.). Tampere: Tampere University of Technology. Department of Civil Engineering, Vol. V. p. 1129-1140 12 p.

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

Life-Cycle Economics of Rentable Prefabricated School Facility Units in Municipal Real Estate Procurement

Vihola, J. & Edelman, H., 27 May 2016, *Proceedings of the CIB World Building Congress 2016: Volume V: Advancing Products and Services*. Tampere University of Technology. Department of Civil Engineering, p. 76-87 12 p.

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

Proceedings of the CIB World Building Congress 2016: Volume I - Creating built environments of new opportunities

Kähkönen, K. (ed.) & Keinänen, M. (ed.), 27 May 2016, Tampere University of Technology. Department of Civil Engineering. 917 p. (Tampere University of Technology. Department of Civil Engineering. Construction Management and Economics. Report; vol. 18)

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

Proceedings of the CIB World Building Congress 2016: Volume III - Building Up Business Operations and Their Logic. Shaping Materials and Technologies

Saari, A. (ed.) & Huovinen, P. (ed.), 27 May 2016, Tampere University of Technology. Department of Civil Engineering. 743 p. (Tampere University of Technology. Department of Civil Engineering. Construction Management and Economics. Report; vol. 18)

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

Proceedings of the CIB World Building Congress 2016: Volume IV - Understanding Impacts and Functioning of Different Solutions

Nenonen, S. (ed.) & Junnonen, J-M. (ed.), 27 May 2016, Tampere University of Technology. Department of Civil Engineering. 718 p. (Tampere University of Technology. Department of Civil Engineering. Construction Management and Economics. Report; vol. 18)

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

Social media analytics empowering marketing insight- A framework for analyzing affective experiences from social media content

Jussila, J., Boedeker, M., Jalonen, H. & Helander, N., 27 May 2016.

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

Durability study on high speed water hydraulic miniature on/off-valve

Paloniitty, M., 24 May 2016, *DFP16, Proceedings of the eighth workshop on digital fluid power, May 24-25, 2016, Tampere, Finland*. Tampere, p. 201-211 11 p.

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

A Variable Battery Supply DC-DC Buck Converter Designed for 45nm-CMOS Technology

Fouladi, A., Järvenhaara, J., Filanovsky, I. M. & Tchamov, N. T., 15 May 2016, *2016 IEEE Canadian Conference on Electrical and Computer Engineering (CCECE), Vancouver, May 15-18, 2016.*

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

On Moderate Inversion/Saturation Regions As Approximations to "Reconciliation" Model

Filanovsky, I. M., Järvenhaara, J. K. & Tchamov, N. T., 15 May 2016, *2016 IEEE Canadian Conference on Electrical and Computer Engineering (CCECE), Vancouver, May 15-18, 2016*. IEEE

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

Optimal operation of a QCS scanner in a paper machine based on the information of QCS and WIS measurements

Raunio, J-P. & Ritala, R., 14 May 2016, *PaperCon 2016 Conference Proceedings -TAPPI*. Cincinnati, USA: TAPPI, p. 1-11 11 p.

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

Architecture beyond signs and symbols : Zumthor's response to the problems of aesthetics

Passinmäki, P., 12 May 2016, In : ARQ-Architectural Research Quarterly. 19, 4, p. 325-328 4 p.

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

Adaptive fuzzy inference system based directional median filter for impulse noise removal

Habib, M., Hussain, A., Rasheed, S. & Ali, M., 1 May 2016, In : AEU International Journal of Electronics and Communication. 70, 5, p. 689-697 9 p.

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

Enhancing the acceptance of advanced services among users of complex systems

Vaittinen, E., Martinsuo, M. & Nenonen, S., May 2016, *Servitization: Shift, Transform, Grow: Proceedings of the Spring Servitization Conference, 16-17 May 2016 (SSC2016)*. Baines, T., Harrison, D. & Zolkiewski, J. (eds.). p. 162-170 9 p.

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

Preliminary results from a study aiming to improve ground investigation data

Di Buo, B., D'Ignazio, M., Selänpää, J. & Länsivaara, T., May 2016, *Proceedings of the 17th Nordic Geotechnical Meeting: Challenges in Nordic Geotechnic 25th-28th of May*. Reykjavik: Icelandic Geotechnical Society, p. 187-197 11 p.

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

Strength increase below an old test embankment in Finland

D'Ignazio, M. & Länsivaara, T., May 2016, *The 17th Nordic Geotechnical Meeting: Conference proceedings*. Reykjavik: Icelandic Geotechnical Society, p. 357-366

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

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

Pakkala, T., Lemberg, A-M. & Lahdensivu, J., May 2016, *Proceedings of the CIB World Building Congress 2016: Vol 2 : Environmental opportunities and challenges, Constructing commitment and acknowledging human experiences*. Prins, M., Wamelink, H., Giddings, B., Ku, K. & Feenstra, M. (eds.). Tampere: Tampere University of Technology. Department of Civil Engineering, Vol. 2. p. 153-165 13 p.

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

Feasibility characterization of cryptographic primitives for constrained (wearable) IoT devices

Ometov, A., Masek, P., Malina, L., Florea, R., Hosek, J., Andreev, S., Hajny, J., Niutanen, J. & Koucheryavy, Y., 19 Apr 2016, *2016 IEEE International Conference on Pervasive Computing and Communication Workshops, PerCom Workshops 2016*. IEEE

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

Fully printed memristors for a self-sustainable recorder of mechanical energy

Vilmi, P., Nelo, M., Voutilainen, J-V., Palosaari, J., Pörhönen, J., Tuukkanen, S., Jantunen, H., Juuti, J. & Fabritius, T., 19 Apr 2016, In : Flexible and Printed Electronics. 1, 2, 8 p., 025002.

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

Crowdsourcing in Business-to-Business Markets: A Value Creation and Business Model Perspective

Bernhardt, J., Helander, N., Jussila, J. & Kärkkäinen, H., Apr 2016, *Encyclopedia of E-Commerce Development, Implementation, and Management*. United States: IGI Global, p. 933-943 11 p. 66

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

Quenching nematicon fluctuations via photo-stabilization

Karimi, N., Alberucci, A., Virkki, M., Priimägi, A., Kauranen, M. & Assanto, G., 31 Mar 2016, In : Photonics Letters of Poland. 8, 1, p. 2-4 3 p.

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

Finite temperature path-integral modeling of quantum dot cellular automata

Tiihonen, J., Schramm, A., Kylänpää, I. & Rantala, T., 29 Mar 2016.

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

Sisäympäristön laadun ja terveellisuuden arviointi energiaparannuskohteissa

Mari, T., Leivo, V., Pekkonen, M., Aaltonen, A., Kiviste, M. & Haverinen-Shaughnessy, U., 16 Mar 2016, *Sisäilmastoseminaari 2016, Sisäilmayhdistys raportti 34*. SIY SISÄILMATIETO OY, p. 13-18 6 p.

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

InGaAs-QW VECSEL emitting >1.300-nm via intracavity Raman conversion

Parrotta, D., Casula, R., Penttinen, J-P., Leinonen, T., Kemp, A., Guina, M. & Hastie, J., 12 Mar 2016, *Vertical External Cavity Surface Emitting Lasers (VECSELs) VI*. (Proceedings of SPIE).

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

Difference frequency modulation of multi-section dual-mode lasers with nanoscale surface gratings

Uusitalo, T., Virtanen, H., Viheriälä, J., Salmi, J., Aho, A. T. & Dumitrescu, M., 7 Mar 2016, *SPIE Proceedings: Novel In-Plane Semiconductor Lasers XV*. Belyanin, A. A. & Snowton, P. M. (eds.). SPIE, Vol. 9767. 9 p. 97670S. (Proceedings of SPIE).

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

Random Value Impulse Noise Removal Based on Most Similar Neighbors

Habib, M., Rasheed, S., Hussain, A. & Ali, M., 26 Feb 2016, *2015 13th International Conference on Frontiers of Information Technology (FIT)*. IEEE, p. 329-333 5 p.

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

A review study of photovoltaic array maximum power point tracking algorithms

El-Khozondar, H., El-Khozondar, R., Matter, K. & Suntio, T., 18 Feb 2016, In : *Renewables: Wind, Water, and Solar*. 3, 1, 8 p.

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

First-principles data set of 45,892 isolated and cation-coordinated conformers of 20 proteinogenic amino acids

Ropo, M., Schneider, M., Baldauf, C. & Blum, V., 16 Feb 2016, In : *Scientific Data*. 3, 160009.

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

Lean manufacturing methods in simulation literature: Review and association analysis

Tokola, H., Niemi, E. & Väistö, V., 16 Feb 2016, *2015 Winter Simulation Conference (WSC)*. p. 2239-2248 10 p.

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

Optical amplifiers and lasers based on tapered fiber geometry for power and energy scaling with low signal distortion

Filippov, V., Chamorovskii, Y. K., Golant, K. M., Vorotynskii, A. & Okhotnikov, O. G., Feb 2016, *Proceedings of SPIE: Fiber Lasers XIII: Technology, Systems, and Applications*. Ballato, J. (ed.). SPIE, Vol. 9728. 11 p. 97280V-1. (SPIE conference proceedings).

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

A 1.5-W frequency doubled semiconductor disk laser tunable over 40 nm at around 745 nm

Saarinen, E. J., Lyytikäinen, J., Ranta, S., Rantamäki, A., Saarela, A., Sirbu, A., Iakovlev, V., Kapon, E. & Okhotnikov, O. G., 2016, *Proceedings of SPIE: Vertical External Cavity Surface Emitting Lasers (VECSELs) VI*. SPIE, Vol. 9734. 8 p. 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., 2016, *23rd Saint Petersburg International Conference on Integrated Navigation Systems, ICINS 2016 - Proceedings*. State Research Center of the Russian Federation, p. 249-257 9 p.

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

A continuum damage model for creep fracture and fatigue analyses

Kauppi, P., Kouhia, R., Ojanperä, J., Saksala, T. & Sorjonen, T., 2016, *21st European Conference on Fracture, ECF21, 20-24 June 2016, Catania, Italy*. p. 887-894 8 p. (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, V. V. & Pulkkinen, A., 2016, *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, p. 867-873 7 p. (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, K., Laine, T. & Korhonen, T., 2016, *10th Conference On New Directions In Management Accounting, Brussels, Belgium, December 14-16, 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., 2016, *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*. National Technical University of Athens, Vol. 2. p. 3395-3408 14 p.

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

Analysis of Real Mobility Records in Urban and Suburban Environments

Alexandru, R. C. & Lohan, E-S., 2016, *26TH DAAAM International Symposium on Intelligent Manufacturing and Automation*. DAAAM International, 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, A., Pannian, J. C., Slussarenko, S., Piccirillo, B., Santamato, E., Marrucci, L. & Assanto, G., 2016, *Frontiers in Optics 2016*. Optical Society of America (OSA), 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, A., Tkachev, S., Golos, N., Masek, P., Hosek, J., Fujdiak, R., Zeman, K., Ometov, A., Bezzateev, S., Voloshina, N., Andreev, S. & Misurec, J., 2016, *Distributed Computer and Communication Networks - 19th International Conference, DCCN 2016, Revised Selected Papers*. Springer Verlag, Vol. 678. p. 25-34 10 p. (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, R., Holopainen, S., Ottosen, N. S., Matti, R. & Saksala, T., 2016. 4 p.

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. & Lämsivaara, T., 2016, *Proceedings of the The 17th Nordic Geotechnical Meeting, Reykjavik Iceland: 25th - 28th of May 2016*. p. 691-699 9 p.

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

Backend infrastructure supporting audio augmented reality and storytelling

Salo, K., Giova, D. & Mikkonen, T., 2016, *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, p. 325-335 11 p. (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, M. & Mahlamäki, T., 2016, *25th annual IPSERA Conference: Dortmund, Sunday 20 March - Wednesday 23 March 2016*. Dortmund

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

Building Codes and Demand Response of Energy Use

Sorri, J., Heljo, J., Järventausta, P., Honkapuro, S. & Harsia, P., 2016, *Proceedings of the CIB World Building Congress 2016: Volume IV: Understanding Impacts and Functioning of Different Solutions*. Nenonen, S. & Junnonen, J-M. (eds.). Tampere University of Technology. Department of Civil Engineering, Vol. 4. p. 8-21 14 p.

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

Building energy retrofits, occupant health and wellbeing

Haverinen-Shaughnessy, U., Pekkonen, M., Turunen, M., Aaltonen, A. & Leivo, V., 2016, *CIB World Building Congress 2016 Proceedings : Volume 2 Environmental Opportunities and challenges - Constructing commitment and acknowledging human experiences*. Prins, M., Wamelink, H., Giddings, B., Ku, K. & Feenstra, M. (eds.). Tampere University of Technology. Department of Civil Engineering, Vol. 2. p. 679-687 9 p.

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

Bus Transportation Accessibility - Does It Impact Housing Values?

Kurvinen, A. & Sorri, J., 2016, *Proceedings of the CIB World Building Congress 2016: Understanding impacts and functioning of different solutions*. Nenonen, S. & Junnonen, J-M. (eds.). Tampere: Tampere University of Technology. Department of Civil Engineering, Vol. IV. p. 321-331 11 p.

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, S., Eriksson, R., Niemi, O., Junghans, A., Nielsen, S. B. & Lindahl, G., 2016, *Proceedings of the 20th CIB World Building Congress 2016: May 30-June 3, 2016, Tampere, Finland*. p. 738-749 12 p.

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

Characterising the industrial context of engineering change management

Pulkkinen, A., Huhtala, P., Leino, S-P., Anttila, J. P. & Vainio, V. V., 2016, *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, p. 618-627 10 p. (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., 2016, *Proceedings of the 17th Nordic Geotechnical Meeting Reykjavik Iceland: Challenges in Nordic Geotechnic 25th - 28th of May*. Reykjavik: Icelandic Geotechnical Society, 10 p.

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, V-P., Seppälä, J. & Salmenperä, M., 2016, *SEFI conference 2016: Engineering Education on Top of the World: Industry University Cooperation*. 9 p.

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

Computer vision aided navigation systems

Davidson, P. & Merkulova, I., 2016, *23rd Saint Petersburg International Conference on Integrated Navigation Systems, ICINS 2016 - Proceedings*. State Research Center of the Russian Federation, p. 560-562 3 p.

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

Consensus building in the pre-design phase of building projects

Keinänen, M., Uotila, U., Sorri, J., Teriö, O. & Kähkönen, K., 2016, *WBC16 Proceedings of the CIB World Building Congress 2016 Volume II : Environmental Opportunities and challenges, Constructing commitment and acknowledging human experiences*. Prins, M., Wamelink, H., Giddings, B., Ku, K. & Feenstra, M. (eds.). Tampere University of Technology. Department of Civil Engineering, Vol. Volume II . p. 561-572 12 p. (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, A., Lummi, K., Järventausta, P., Tikka, V. & Lana, A., 2016, *Cired Workshop 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, A.-J., Kontunen, A., Ryyänen, T., Verho, J., Kreutzer, J., Lekkala, J. & Kallio, P., 2016, *IEEE 11th Annual International Conference on Nano/Micro Engineered and Molecular Systems (NEMS)*. IEEE, p. 125-129 5 p.

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, A., Keinänen, M. & Kähkönen, K., 2016, *Proceedings of the CIB World Building Congress 2016: Volume I - Creating built environments of new opportunities..* Vol. 1. 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, M., Mirow, N., Nagel, H., Vogt, S. & Kuokkala, V-T., 2016, *Conference Proceedings of the Society for Experimental Mechanics Series*. Springer New York LLC, Vol. 6. p. 51-59 9 p.

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, H. & Silventoinen, A., 2016, *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, p. 89-102 14 p. (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, J. C., Alberucci, A., Boardman, A. & Assanto, G., 2016, *Laser science 2016*. Optical Society of America (OSA), 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, M., Wetzel, B., Billet, C., Merolla, J-M., Toenger, S., Sylvestre, T., Morandotti, R., Dias, F., Genty, G. & Dudley, J. M., 2016, *Frontiers in Optics 2016*. Optical Society of America, FTu3l.4

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

Dots-on-the-fly electron beam lithography

Isotalo, T. J. & Niemi, T., 2016, *SPIE Proceedings: Alternative Lithographic Technologies VIII*. Bencher, C. (ed.). SPIE, Vol. 9777. 7 p. 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, P., Di Flora, C., Helevirta, M. & Isomöttönen, V., 2016, *7th International Multi-Conference on Complexity, Informatics and Cybernetics, IMCIC 2016 and 7th International Conference on Society and Information Technologies, ICSIT 2016*. IIS, Vol. 2. p. 132-136 5 p.

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

Empowerment in construction: a qualitative analysis of subcontractors' quality assurance

Viita, J. & Junnonen, J-M., 2016, *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, 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, V-P., 2016, *SEFI conference 2016: Engineering Education on Top of the World: Industry University Cooperation*. 9 p.

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, S., 2016, *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.* Papadrakakis, M., Papadopoulos, V., Stefanou, G. & Plevris, V. (eds.). p. 6675-6687 13 p.

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

Extending Professional Fields. Architectural Research and Regional Development

Hynynen, A., 2016, *Proceedings of the CIB World Building Congress 2016.: Volume I - Creating built environments of new opportunities.* Kähkönen, K. & Keinänen, M. (eds.). Tampere University of Technology. Department of Civil Engineering, Vol. I. p. 372-383 12 p.

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, N., Viheriälä, J., Koskinen, R., Koskinen, M., Suomalainen, S. & Guina, M., 2016, *Light-Emitting Diodes: Materials, Devices, and Applications for Solid State Lighting XX.* SPIE, 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, J., Kuokkala, V-T., Seidt, J. & Gilat, A., 2016, *Dynamic Behavior of Materials, Volume 1: Proceedings of the 2016 Annual Conference on Experimental and Applied Mechanics.* Springer International Publishing, p. 37-44 8 p. (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, L., Freimanis, E., Gross, K., Koivuluoto, H., Algate, K., Haynes, D. & Vuoristo, P., 2016, *11th International Conference Medical Applications of Novel Biomaterials and Nanotechnology.* Vol. 102. p. 12-17 6 p. (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, P. L., 2016, *Chemical Engineering Transactions.* Italian Association of Chemical Engineering AIDIC, p. 907-912 6 p. (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, A., 2016, In : *European Spatial Research and Policy.* 23, 1, p. 127-139 13 p.

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

High Dynamic Range Single-Shot Spectral Measurements of Spontaneous Modulation Instability

Närhi, M., Tengvall, M., Toivonen, J., Dudley, J. M. & Genty, G., 2016, *Frontiers in Optics 2016.* Optical Society of America (OSA), 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., 2016, In : *Journal of Green Engineering.* 5, 3-4, p. 113-132 20 p., 8.

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

High-power 1550 nm tapered DBR lasers fabricated using soft UV-nanoimprint lithography

Viheriälä, J., Aho, A. T., Mäkelä, J., Salmi, J., Virtanen, H., Leinonen, T., Dumitrescu, M. & Guina, M., 2016, *High-Power Diode Laser Technology and Applications XIV.* SPIE, 7 p. 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 Cr₃C₂-based coatings

Matikainen, V., Bolelli, G., Koivuluoto, H., Sassatelli, P., Lusvardi, L. & Vuoristo, P., 2016, *Proceedings of The 17th Nordic Symposium on Tribology - NORDTRIB 2016.* 10 p.

How is it sustainable? Identifying key indicators for sustainable educational design

Sandström, N., Hytti, V., Nenonen, S. & Lonka, K., 2016, *10th INTED 2016 Conference Proceedings: 7-9 March, 2016, Valencia, Spain*. Gómez Chova, L., López Martínez, A. & Candel Torres, I. (eds.). p. 4217-4219 3 p. (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, K. & Lehtonen, T., 2016, *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

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

Identifying and measuring customer value - case multi-locational worker

Vasell, T., Vuolle, M., Petrulaitiene, V., Nenonen, S. & Jylhä, T., 2016, *Research papers for EuroFM's 15th research symposium at EFMC2016: 8-9 June 2016 in Milan, Italy*. Nielsen, S. & Jensen, P. A. (eds.). EuroFM, p. 143-151 9 p.

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, J., Lavonen, J., Lahtinen, K., Johansson, P., Seppänen, T. & Cameron, D. C., 2016, *TAPPI International Conference on Nanotechnology for Renewable Materials 2016*. TAPPI Press, Vol. 2. p. 684-706 23 p.

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, O., Kravchenko, Y. & Korpinen, L., 2016, In : *Progress in Electromagnetics Research C*. 63, p. 163-171 9 p.

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

Institutional development is the key for sustainable water services in the built environment

Katko, T. S. & Hukka, J. J., 2016, *Proceedings of the CIB World Building Congress 2016: Volume IV - Understanding impacts and functioning of different solutions*. Nenonen, S. & Junnonen, J-M. (eds.). Tampere: Tampere University of Technology. Department of Civil Engineering, p. 419-430 12 p.

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

Integrated urban water management, the green economy and institutional eco-innovations

Hukka, J. J., Nyanchaga, E. N. & Katko, T. S., 2016, *Proceedings of the CIB World Building Congress 2016: Volume III - Building up business operations and their logic. Shaping materials and technologies*. Saari, A. & Huovinen, P. (eds.). Tampere: Tampere University of Technology. Department of Civil Engineering, p. 260-271 11 p.

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

Integrating III-V, Si, and polymer waveguides for optical interconnects: RAPIDO

Aalto, T., Harjanne, M., Offrein, B. J., Caër, C., Neumeyr, C., Malacarne, A., Guina, M., Sheehan, R. N., Peters, F. H. & Melanen, P., 2016, *Optical Interconnects XVI*. SPIE, 97530D. (Proceedings of SPIE; vol. 9753).

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

Is languaging experienced to improve understanding of structural mechanics?

Rundgren, A., Joutsenlahti, J. & Mäkinen, J., 2016, *44th SEFI 2016 Annual Conference: 12-15 September 2016 in Tampere, Finland*.

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

Leadership instead of grading - The new goals of assessment

Lehtonen, T., Juuti, T., Vanhatalo, M., Kopra, M. J. & Rättyä, K., 2016, *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, 8 p.

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

Lean Software Design, Lean Education? Lessons from a Collaborative University-Industry Seminar

Olsson, T., Vääätäjä, H., Ihamäki, H., Jaana, O., Länsisalo, M., Veera, U. & Lehto-Lunden, T., 2016, *SEFI'16 - 44th Annual Conference of the European Society for Engineering Education*. European Society for Engineering Education SEFI
Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Learning for sustainable water and sanitation services

Takala, A., 2016, *Proceedings of the 8th International Conference on Engineering Education for Sustainable Development (Bruges, 4-7 September 2016) : Building a circular economy together*. Mazijn, B. (ed.). Brugge: Instituut voor Duur zame Ontwikkeling vzw, p. 250-258 D.3.2
Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Linear and nonlinear light beam propagation in chiral nematic liquid crystal waveguides

Laudyn, U. A., Kwaśny, M., Jung, P. S., Trippenbach, M., Assanto, G. & Karpierz, M. A., 2016, In : *Photonics Letters of Poland*. 8, 1, p. 11-13 3 p.
Research output: Contribution to journal › Article › Scientific › peer-review

Long-term effects of purchasing: fact or fiction?

Heikkilä, J., Jääskeläinen, A. & Thitz, O., 2016, *Proceedings of 25th IPSERA 2016 conference, 20-23.3.2016, Dortmund, Germany*. . International Purchasing and Supply Education and Research Association IPSERA
Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Professional

Mathematical Parametrisation of Irradiance Transitions Caused by Moving Clouds for PV System Analysis

Lappalainen, K. & Valkealahti, S., 2016, *32nd European Photovoltaic Solar Energy Conference and Exhibition (32nd EU PVSEC), 20-24 June, 2016, Munich, Germany*. p. 1485-1489 5 p.
Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Mining smart meter data - Case Finland

Mutanen, A., Niska, H. & Järventausta, P., 2016, *CIREC Workshop 2016*. Institution of Engineering and Technology
Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Moisture and building processes in Finland

Teriö, O., Hämäläinen, J., Uotila, U., Sorri, J. & Saari, A., 2016, *Proceedings of the 20th CIB World Building Congress 2016: Volume I - Creating built environments of new opportunities. (Tampere University of Technology. Department of Civil Engineering. Construction Management and Economics. Report; Vol. 18)*. Kähkönen, K. & Keinänen, M. (eds.). Tampere: Tampere University of Technology. Department of Civil Engineering, Vol. I. p. 907-917 11 p.
Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Multiaxial magneto-mechanical modelling of electrical machines with hysteresis

Rasilo, P., Aydin, U., Singh, D., Martin, F., Kouhia, R., Belahcen, A. & Arkkio, A., 2016, *Proceedings of the 8th IET International Conference on Power Electronics, Machines and Drives, PEMD 2016*. IET, The Institution of Engineering and Technology
Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Multicarrier modulation for HF communications

Yli-Kaakinen, J., Renfors, M. & Tuomivaara, H., 2016, *2016 International Conference on Military Communications and Information Systems (ICMCIS)*. IEEE, 7 p.
Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Nanoscale barrier coating on BOPP packaging film by ALD

Lahti, J., 2016, *TAPPI PLACE Conference 2016: Exploring New Frontiers*. TAPPI Press, p. 493-505 13 p.
Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Need of Services and Understanding of Service Providers in Water and Sanitation: A Case of Ethiopia

Behailu, B. M. & Mattila, H., 2016, *Proceedings of the CIB World Building Congress 2016 Volume IV: Understanding impacts and functioning of different solutions*. Nenonen, S. & Junnonen, J-M. (eds.). Tampere University of Technology, p. 431-440 10 p.
Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Negotiating water governance: towards cooperation in contentious groundwater recharge projects

Kurki, V., 2016, *Proceedings of the CIB World Building Congress 2016: Volume I - Creating built environments of new opportunities*. Tampere University of Technology. Department of Civil Engineering, p. 91-102

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

New value chains to construction: advancing products and services

Virtanen, J-P., Hyyppä, H., Stähle, P., Kalliokoski, S., Kähkönen, K. E., Ahlavuo, M., Launonen, P., Hyyppä, J., Kukko, A. & Julin, A., 2016, *Proceedings of the 20th CIB World Building Congress 2016: Advancing products and services*. Achour, N. (ed.). Tampere University of Technology. Department of Civil Engineering, Vol. V. p. 954-965 12 p.

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

Nonperturbative nonlinear optics in liquid crystals

Alberucci, A., Piccardi, A., Kravets, N., Buchnev, O., Pannian, J. C. & Assanto, G., 2016, *Laser science 2016*. Optical Society of America (OSA), JW4A.12

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

On Detecting the Shape of an Unknown Object in an Electric Field

Humaloja, J-P., Härmäläinen, T. & Pohjolainen, S., 2016, *Progress in Industrial Mathematics at ECMI 2014*. Russo, G., Capasso, V., Nicosia, G. & Romano, V. (eds.). Springer International Publishing, (Mathematics in Industry; vol. 22).

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

On Polyglot Programming in the Web

Harmanen, J. & Mikkonen, T., 2016, *Modern Software Engineering Methodologies for Mobile and Cloud Environments*. IGI Global, p. 102-119 18 p.

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

Optical fiber amplifier with spectral compression elements for high-power laser pulse generation

Fotiadi, A. A., Korobko, D. A., Okhotnikov, O. G. & Zolotovskii, I. O., 2016, *Nonlinear Optics and its Applications IV*. SPIE, Vol. 9894. 989411. (Proceedings of SPIE; vol. 9894).

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

Perspective of Social Usability in the Change Processes of an Academic Workplace

Kostiainen, E. & Nenonen, S., 2016, *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, p. 688-701

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

Probabilistic Framework for Modelling the Evolution of Geomorphic Features in 10,000-Year Time Scale: The Eurajoki River Case

Pohjola, J., Turunen, J., Lipping, T. & Ikonen, A. T. K., 2016, *Geospatial Data in a Changing World: Selected papers of the 19th AGILE Conference on Geographic Information Science*. Springer Verlag, p. 369-382 (Lecture Notes in Geoinformation and Cartography).

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

Proceedings of the 26th International Conference on Information Modelling and Knowledge Bases - EJC 2016: June 6-10, 2016, Tampere, Finland.

Jaakkola, H. (ed.), Thalheim, B. (ed.), Kiyoki, Y. (ed.) & Yoshida, N. (ed.), 2016, Tampere: Tampere University of Technology. (Tampere University of Technology, Pori Department Publications)

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

Proceedings of the Detection and Classification of Acoustic Scenes and Events 2016 Workshop (DCASE2016)

Virtanen, T. (ed.), Mesaros, A. (ed.), Heittola, T. (ed.), Plumbley, M. D. (ed.), Foster, P. (ed.), Benetos, E. (ed.) & Lagrange, M. (ed.), 2016, Tampere University of Technology. Department of Signal Processing. 119 p.

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

Profitability of different li-ion batteries as back-up power in LVDC distribution network

Markkula, J., Vilppo, O., Järventausta, P., Hakala, T. & Lähdeaho, T., 2016, *CIREC Workshop 2016*.

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

Quantitative Estimation of Long-living Fluorescent Molecules from Temporal Fluorescence Intensity Data Corrupted by Nonzero-mean Noise

Startceva, S., Chandraseelan, J. G., Visa, A. & Ribeiro, A. S., 2016, *BIOSIGNALS 2016 - 9th International Conference on Bio-Inspired Systems and Signal Processing, Proceedings; Part of 9th International Joint Conference on Biomedical Engineering Systems and Technologies, BIOSTEC 2016*. SCITEPRESS, p. 17-24

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

Real Time Measurements of Temporal Rogue Waves and Spontaneous Modulation Instability in Optical Fiber

Narhi, M., Wetzel, B., Billet, C., Merolla, J.-M., Toenger, S., Sylvestre, T., Morandotti, R., Genty, G., Dias, F. & Dudley, J. M., 2016, *CLEO: QELS Fundamental Science 2016*. Optical Society of America, 2 p. FF2A.7

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

Recognising the culture context in information search

Jaakkola, H. & Thalheim, B., 2016, *Proceedings of the 26th International Conference on Information Modelling and Knowledge Bases - EJC 2016. : June 6-10, 2016, Tampere, Finland. . Jaakkola, H., Thalheim, B., Kiyoki, Y. & Yoshida, N. (eds.). Tampere: Tampere University of Technology Pori Department, Vol. 18. p. 167-185 9 p. (Tampere University of Technology Pori Department Publications; no. 18).*

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

Reinforcement Corrosion Modelling in Renovation Strategy for Concrete Facades

Köliö, A., Lahdensivu, J. & Pentti, M., 2016, *Proceedings of the CIB World Building Congress 2016: Volume III - Building Up Business Operations and Their Logic. Shaping Materials and Technologies*. Tampere University of Technology. Department of Civil Engineering, p. 199-211

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

Relations between civil engineering students' approaches to learning, perceptions of the development of professional skills and perceived workload

Salmisto, A., Postareff, L. & Nokelainen, P., 2016, *44th Annual Conference of the European Society for Engineering Education SEFI2016: Proceedings: 12-15 September 2016, Tampere, Finland*.

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

Resource – Space Charts for Construction Workspace Scheduling

Bragadin, M. A. & Kähkönen, K., 2016, *Proceedings of the CIB World Building Congress 2016: Volume III - Building Up Business Operations and Their Logic. Shaping Materials and Technologies*. Tampere University of Technology. Department of Civil Engineering, p. 677-688

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

Roadmap towards the vision of the future power system and electricity market

Kumpulainen, L., Kauhaniemi, K., Repo, S., Valkealahti, S., Honkapuro, S., Partanen, J., Koivisto-Rasmussen, R. & Järventausta, P., 2016, *CIREC Workshop 2016*. Institution of Engineering and Technology

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

Role of Power and Sense Making in the Briefing of a Small Renovation Project

Naaranoja, M., Kähkönen, K. & Keinänen, M., 2016, *Proceedings of the CIB World Building Congress 2016: Volume I - Creating built environments of new opportunities*. Tampere University of Technology. Department of Civil Engineering, p. 611-621

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

Role of Water Cooperatives in Water Service Production - Lessons from Finland and Denmark

Pietilä, P., Arvonen, V. & Katko, T., 2016, *Proceedings of the 20th CIB World Building Congress 2016: May 30 – June 3, 2016 Tampere Finland*. Achour, N. (ed.). Tampere University of Technology, Vol. V. p. 1152-1161

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

Short range HF radio channel measurements: Search for one path channels

Saarnisaari, H., Hovinen, V., Tuomivaara, H. & Yli-Kaakinen, J., 2016, *2016 International Conference on Military Communications and Information Systems (ICMCIS)* . 6 p.

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

Simultaneous binary hash and features learning for image retrieval

Frantc, V. A., Makov, S. V., Voronin, V. V., Marchuk, V. I., Semenishchev, E. A., Egiazarian, K. O. & Agaian, S., 2016, *Mobile Multimedia/Image Processing, Security, and Applications 2016*. SPIE, 986902. (SPIE Conference Proceedings; vol. 9869).

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

Single Shot Time Domain Ghost Imaging using Wavelength Multiplexing

Ryczkowski, P., Barbier, M., Friberg, A. T., Dudley, J. M. & Genty, G., 2016, *Frontiers in Optics 2016*. Optical Society of America (OSA), FTh5C.6

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

Site-controlled InAs Quantum Dots for Plasmonics

Hakkarainen, T., Tommila, J., Schramm, A., Simonen, J., Niemi, T., Strelow, C., Kipp, T., Kontio, J. & Guina, M., 2016, *Conference on Lasers and Electro-Optics 2016: QELS_Fundamental Science*. OSA - The Optical Society, FM1B.3

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

Sound Event Detection in Multichannel Audio Using Spatial and Harmonic Features

Adavanne, S., Parascandolo, G., Pertilä, P., Heittola, T. & Virtanen, T., 2016, *Proceedings of the Detection and Classification of Acoustic Scenes and Events 2016 Workshop (DCASE2016)*. Tampere University of Technology. Department of Signal Processing, p. 6-10

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

Spatial borders and affordances of a temporary school building – Enhancing the school engagement and learning experience

Airo, K., Vaara, L. & Nenonen, S., 2016, *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, p. 715-725

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

STACK assignments in university mathematics education

Mäkelä, A-M., Ali-Löytty, S., Humaloja, J-P., Joutsenlahti, J., Kauhanen, J. & Kaarakka, T., 2016, *Proceedings of the 44th SEFI Conference, 12 - 15 September 2016, Tampere, Finland*. European Society for Engineering Education SEFI, 14 p.

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

Surrogate modeling for initial rotational stiffness of welded tubular joints

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

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

Tag suggestions from social media profiles

Rantanen, P., Sillberg, P., Soini, J. & Jaakkola, H., 2016, *Proceedings of the 26th International Conference on Information Modelling and Knowledge Bases - EJC 2016. : June 6-10, 2016, Tampere, Finland*. . Jaakkola, H., Thalheim, B., Kiyoki, Y. & Yoshida, N. (eds.). Tampere: Tampere University of Technology, Vol. 18. p. 387-394 8 p. (Tampere University of Technology Pori Department Publications).

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

Target tracking via combination of particle filter and optimisation techniques

Hosseini, S. S. S., Jamali, M. M., Astola, J. & Gorsevski, P. V., 2016, In : *International Journal of Mathematical Modelling and Numerical Optimization*. 7, 2, p. 212-229 18 p.

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

The role of the purchasing function in non-financial value creation

Jääskeläinen, A., Thitz, O. & Heikkilä, J., 2016, *25th Proceedings of IPSERA 2016 conference*, : 20-23.3.2016, Dortmund, Germany..

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

The Workplace for Researchers – Enhancing Concentration and Face-to-face Interaction

Huhtelin, M. & Nenonen, S., 2016, *Proceedings of the CIB World Building Congress 2016: Volume I - Creating built environments of new opportunities*. Tampere University of Technology. Department of Civil Engineering, p. 753-764

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

Towards responsive workspaces - identification of service paths for time-and-place independent work

Petrolaitiene, V., Rytönen, E. & Nenonen, S., 2016, *Proceedings of the 20th CIB World Building Congress 2016: May 30 – June 3, 2016 Tampere Finland*. Achour, N. (ed.). Tampere University of Technology, Vol. V. p. 1141-1151 11 p.

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

Two models for hydraulic cylinders in flexible multibody simulations

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

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

Use of high-order beams to calibrate spatial light modulators for microscopy

Turquet, L., Kauranen, M. & Bautista, G., 2016. 1 p.

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

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

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

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

Ventilation rates and CO2-levels before and after energy retrofit in Finnish apartment buildings

Leivo, V., Aaltonen, A., Turunen, M., Du, L., Kivistö, M. & Haverinen-Shaughnessy, U., 2016, *CLIMA 2016 - Proceedings of the 12th REHVA World Congress. Aalborg. Aalborg University. Department of Civil Engineering. : Volume 1. Building Retrofit*. Kvols Heiselberg, P. (ed.). Aalborg: Aalborg university, Department of Civil Engineering, Vol. 1. 192 (in vol 1)

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

Visual narratives in the value chain of new management accounting knowledge

Nyuppieva, E., Laine, T. & Lyly-Yrjänäinen, J., 2016, *10th Conference On New Directions In Management Accounting: Brussels, Belgium, December 14-16, 2016*.

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

Обзор параметрических методов позиционирования на основе концепции отпечатка пальца

Müller, P., Raitoharju, M., Ali-Löytty, S., Wirola, L. & Piche, R., 2016, In : *Giroskopiya I Navigatsiya*. 24, 1, p. 3-35

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

Turvallisuuden johtajat - Esimiesten johtajuus, osaaminen ja sitoutuminen

Tappura, S., Hyytinen, T., Kivistö-Rahnasto, J., Nenonen, N. & Vasara, J., 30 Dec 2015, Tampere: Tampereen teknillinen yliopisto; Tampereen yliopisto. 144 p.

Research output: Book/Report › Commissioned report › Professional

Bispectrum-based demodulation technique using triple-channel heterodyning of triplet-signal

Naumenko, V., Solodovnik, V., Totsky, A., Zelensky, A. & Astola, J., 14 Dec 2015, *2015 Second International Scientific-Practical Conference Problems of Infocommunications Science and Technology (PIC S&T)*. IEEE, p. 224-226 3 p.

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, O., Ponomarenko, N., Lukin, V., Astola, J. & Egiazarian, K., 14 Dec 2015, *2015 2nd International Scientific-Practical Conference Problems of Infocommunications Science and Technology, PIC S and T 2015 - Conference*

Proceedings. IEEE, p. 189-192 4 p.

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

Method of data compression for traffic monitoring

Kozhemiakina, N., Lukin, V., Ponomarenko, N., Akulynichev, A., Astola, J. & Egiazarian, K., 14 Dec 2015, *2015 2nd International Scientific-Practical Conference Problems of Infocommunications Science and Technology, PIC S and T 2015 - Conference Proceedings. IEEE*, p. 153-156 4 p.

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

Platform Competences to Enhance Network Effects in Business Ecosystems

Seppänen, M., Dedehayir, O., Still, K., Valkokari, K. & Suominen, A., 8 Dec 2015, *2015 ISPIM Innovation Summit in Brisbane, Australia - 6-9 December 2015*. International Society for Professional Innovation Management ISPIM

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › 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, M., Björkroth, J., Kuusipalo, J. & Jääskeläinen, E., 1 Dec 2015, In : *Food Packaging and Shelf Life*. 6, p. 53-60 8 p., 67.

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., Dec 2015, In : *Journal of Ceramic Science and Technology*. 6, 4, p. 315-324 10 p.

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., 25 Nov 2015, In : *Atmospheric Chemistry and Physics Discussions*. 15, 22, p. 33253-33282 29 p.

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