

**First principles prediction of the solar cell efficiency of chalcopyrite materials  $\text{AgMX}_2$  (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

**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

**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

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

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

Research output: Contribution to journal > Article > 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 : IEEE JOURNAL OF INDUSTRY APPLICATIONS. 8, 3, 3.

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

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

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

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

**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

**Tutkimuskatsaus: Usia 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

**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

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

Baczkiwicz, 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

**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

**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

### **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

### **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

### **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

### **Kehittämistutkimus: vuorovaikuteisten Matlab-opetusohjelmien vaikutus minäpystyvyyteen ja oppimistuloksiin yliopistomatematiikassa**

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

### **Yliopistomatematiikan sähköisten tehtävien ja matemaattisen ajattelun kehittäminen**

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

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

### **Projektityöskentelyn kehittäminen yläkoulun matematiikan opetuksessa**

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

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

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

Sheikh, M. U. & Lempiäinen, 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

### **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

### **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

### **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

### **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

### **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

#### **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

#### **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

#### **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

#### **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

#### **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

#### **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., Teuho, 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

#### **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

#### **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

#### **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

#### **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

#### **Effect of Laser Power on Yield of TiO<sub>2</sub> 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

### **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

### **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

### **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

### **Manipulating Superparamagnetic Microparticles with an Electromagnetic Needle**

Genev, 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

### **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

### **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

### **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

### **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

### **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

### **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

### **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

#### **Quenching nematic 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

#### **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

#### **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

#### **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

#### **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

#### **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

#### **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

#### **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

#### **SimpleTree: An Efficient Open Source Tool to Build Tree Models from TLS Clouds**

Hackenberg, J., Spiecker, H., Calders, K., Disney, M. & Raunonen, P., 23 Nov 2015, In : *Forests: Open Access Journal*. 6, 11, p. 4245-4294 50 p.

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

### **Energy Retrofits in Multi-family Buildings in North-east Europe: The Impacts on Thermal Conditions**

Du, L., Leivo, V., Prasauskas, T., Turunen, M., Kiviste, M., Martuzevicius, D. & Haverinen-Shaughnessy, U., Nov 2015, In : Energy Procedia. 78, p. 860-864 5 p.

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

### **Building new computational models to support health behavior change and maintenance: new opportunities in behavioral research**

Spruijt-Metz, D., Hekler, E., Saranummi, N., Intille, S., Korhonen, I., Nilsen, W., Rivera, D. E., Spring, B., Michie, S., Asch, D. A., Sanna, A., Salcedo, V. T., Kukakfa, R. & Pavel, M., 17 Sep 2015, In : Translational Behavioral Medicine. 5, 3, p. 335-346 12 p.

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

### **Effects of subsampling on characteristics of RNA-seq data from triple-negative breast cancer patients**

Stupnikov, A., Glazko, G. V. & Emmert-Streib, F., 8 Sep 2015, In : Chinese Journal of Cancer. 34, 10

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

### **Towards a Classification Schema for Development Technologies: an Empirical Study in the Avionic Domain**

Taibi, D., Lenarduzzi, V., Dieudonne, L. & Plociennik, C., 1 Aug 2015, In : INTERNATIONAL JOURNAL ON ADVANCES IN SOFTWARE. 8, 1&2, p. 125-135 11 p.

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

### **The effects of neuron morphology on graph theoretic measures of network connectivity: The analysis of a two-level statistical model**

Acimovic, J., Mäki-Marttunen, T. & Linne, M-L., 10 Jun 2015, In : Frontiers in Neuroanatomy. 9, June, 76.

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

### **Distributed power allocation over indoor multi-pico stations**

Fei, Z. S., Gao, Q., Fu, Y., Isotalo, T. & Niemelä, J., 1 Jun 2015, In : Journal of the Beijing Institute of Technology. 24, 2, p. 227-232 6 p.

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

### **Microrobotic system for multi-rate measurement of bio-based fibres Z-directional bond strength**

Latifi, S. K., Saketi, P. & Kallio, P., 24 May 2015, In : Journal of Micro-Bio Robotics. 10, 1, p. 13-26 14 p., 1.

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

### **Cancer research in the era of next-generation sequencing and big data calls for intelligent modeling**

Yli-Hietanen, J., Ylipää, A. & Yli-Harja, O., 11 Apr 2015, In : Chinese Journal of Cancer. 34, 10, 12.

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

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

Koivisto, A. J., Jensen, A. C. Ø., Levin, M., Kling, K. I., Maso, M. D., Nielsen, S. H., Jensen, K. A. & Koponen, I. K., 1 Jan 2015, In : Environmental Sciences: Processes and Impacts. 17, 1, p. 62-73 12 p.

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

### **Acquisition of E5 Galileo signals in Matlab**

Stepanova, E., Kudryavtsev, I. & Lohan, E-S., 2015, In : Procedia Engineering. 104, p. 36-42 7 p.

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

### **Comparison of Detection Techniques for Multipath Propagation of Pseudolite Signals Used in Dense Industrial Environments**

Alexandru, R-C. & Lohan, E-S., 2015, In : Procedia Engineering. 100, C, p. 1294-1300 7 p.

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

### **Entropy of weighted graphs with Randić weights**

Chen, Z., Dehmer, M., Emmert-Streib, F. & Shi, Y., 2015, In : Entropy. 17, 6, p. 3710-3723 14 p.  
Research output: Contribution to journal › Article › Scientific › peer-review

### **Assessing coupling dynamics from an ensemble of time series**

Gómez-Herrero, G., Wu, W., Rutanen, K., Soriano, M. C., Pipa, G. & Vicente, R., 2015, In : Entropy. 17, 4, p. 1958-1970 13 p.  
Research output: Contribution to journal › Article › Scientific › peer-review

### **Cross-Cultural Design of Mobile Mathematics Learning Service for South African Schools**

Vainio, T., Walsh, T. & Varsaluoma, J., 2015, In : IADIS International Journal on WWW/Internet. 12, 1, p. 81-93 12 p.  
Research output: Contribution to journal › Article › Scientific › peer-review

### **Relational Capital for Shared Vision in Innovation Ecosystems**

Russell, M. G., Huhtamäki, J., Still, K., Rubens, N. & Basole, R. C., 2015, In : Triple Helix: A Journal of University-Industry-Government Innovation and Entrepreneurship. 2, 1, 36 p.  
Research output: Contribution to journal › Article › Scientific › peer-review

### **Heat Loss Rate of the Finnish Building Stock**

Vihola, J., Sorri, J., Heljo, J. & Kero, P., 2015, In : Procedia Economics and Finance. 21, p. 601-608 8 p.  
Research output: Contribution to journal › Article › Scientific › peer-review

### **Management and Planning Under Complexities of Metro Construction**

Khosravi, M. & Kähkönen, K., 2015, In : Procedia Economics and Finance. 21, p. 415-421 7 p.  
Research output: Contribution to journal › Article › Scientific › peer-review

### **Human Factor in Time Management**

Reunanen, T., 2015, In : Procedia Manufacturing. 3, p. 709-716 8 p.  
Research output: Contribution to journal › Article › Scientific › peer-review

### **Monitoring urban air quality with a diffusion charger based electrical particle sensor**

Järvinen, A., Kuuluvainen, H., Niemi, J. V., Saari, S., Dal Maso, M., Pirjola, L., Hillamo, R., Janka, K., Keskinen, J. & Rönkkö, T., 2015, In : Urban Climate. 14, 3  
Research output: Contribution to journal › Article › Scientific › peer-review

### **Stirring the Construction Project Management with Co-creation and Continuous Improvement**

Savolainen, J., Kähkönen, K., Niemi, O., Poutanen, J. & Varis, E., 2015, In : Procedia Economics and Finance. 21, p. 64-71 8 p.  
Research output: Contribution to journal › Article › Scientific › peer-review

### **Theoretical 71-Concept Platform for Advancing Construction-related Business Management**

Huovinen, P., 2015, In : Procedia Economics and Finance. 21, p. 80-87 8 p.  
Research output: Contribution to journal › Article › Scientific › peer-review

### **Safety, Space and Structure Quality Requirements in Construction Scheduling**

Bragadin, M. A. & Kähkönen, K., 2015, In : Procedia Economics and Finance. 21, p. 407-414 8 p.  
Research output: Contribution to journal › Article › Scientific › peer-review

### **A Cross-Cultural and Gender-Based Perspective for Online Security: Exploring Knowledge, Skills and Attitudes of Higher Education Students.**

Chaudhary, S., Zhao, Y., Berki, E., Valtanen, J., Li, L., Helenius, M. & Mystakidis, S., 2015, In : IADIS International Journal on WWW/Internet. 13, 1, p. 57-71  
Research output: Contribution to journal › Article › Scientific › peer-review

**Lean-tuotanto ja sen johtaminen: onnistuminen, haasteet ja soveltuminen Suomen yrityksiin ja muihin organisaatioihin**  
Heikkilä, J. & Martinsuo, M., 2015, In : Työpoliittinen aikakauskirja. 3, p. 18-24 7 p.  
Research output: Contribution to journal › Article › Scientific › peer-review

**Air pressure difference between indoor and outdoor or staircase in multi-family buildings with exhaust ventilation system in Finland**  
Leivo, V., Kiviste, M., Aaltonen, A., Turunen, M. & Haverinen-Shaughnessy, U., 2015, In : Energy Procedia. 78C, p. 1218-1223 6 p., 78C.  
Research output: Contribution to journal › Article › Scientific › peer-review

**A Co-creation Centre for University–Industry Collaboration – A Framework for Concept Development**  
Huhtelin, M. & Nenonen, S., 2015, In : Procedia Economics and Finance. 21, p. 137 - 145  
Research output: Contribution to journal › Article › Scientific › peer-review

**Resilient Asset Management and Governance Fordeteriorating Water Services Infrastructure**  
Hukka, J. J. & Katko, T. S., 2015, In : Procedia Economics and Finance. 21, p. 112-119 8 p.  
Research output: Contribution to journal › Article › Scientific › peer-review

**Social and Economic Importance of Water Services in the Built Environment: Need for More Structured Thinking**  
Katko, T. S. & Hukka, J. J., 2015, In : Procedia Economics and Finance. 21, p. 217-223 7 p.  
Research output: Contribution to journal › Article › Scientific › peer-review

**Systematic Search and Ranking of Physical Contradictions Using Graph Theory Principles: Toward a Systematic Analysis of Design Strategies and their Impacts: TRIZ and Knowledge-Based Innovation in Science and Industry**  
Coatanea, E., Ryyänänen, L., Calonius, O., Mokammel, F. & Riitahuhta, A., 2015, In : Procedia Engineering. 131, p. 1165-1182 18 p.  
Research output: Contribution to journal › Article › Scientific › peer-review

**Kohti tasapuolisempaa tutkimuksen arviointia: Pääkirjoitus**  
Katko, T. S., 2015, In : Ympäristöhistoria: Finnish Journal of Environmental History. 5, 1, p. 4-5 2 p.  
Research output: Contribution to journal › Article › Scientific › peer-review

**Importance and challenges of sharing experiences among an international and interdisciplinary group of doctoral students**  
Kurki, V., Sidaraviciute, R., Sörensen, J., Kibocha, S. N., Retike, I., Ikobe, G., Tichonovas, M., Elijosiute, E. & Rajala, R., 2015, In : Ympäristöhistoria: Finnish Journal of Environmental History. 1/2015, p. 45-51 7 p.  
Research output: Contribution to journal › Article › Scientific › peer-review

**Development of chip-surface stimulus electrode array for fully-implantable subretinal prosthesis chip**  
Sasaki, Y., Suzuki, T., Iwagami, T., Tani, T., Naganuma, H., Kino, H., Hyttinen, J., Kellomäki, M. & Tanaka, T., 17 Aug 2014, In : Transactions of Japanese Society for Medical and Biological Engineering. 52, p. O-253-O-254  
Research output: Contribution to journal › Article › Scientific › peer-review

**Development of Si neural probe module with adjustable gain amplifier for neuronal signal recording**  
Tani, T., Naganuma, H., Harashima, T., Iwagami, T., Kino, H., Kiyoyama, K., Kellomäki, M., Hyttinen, J. & Tanaka, T., 17 Aug 2014, In : Transactions of Japanese Society for Medical and Biological Engineering. 52, p. O-377-O-378  
Research output: Contribution to journal › Article › Scientific › peer-review

**Knowledge Management Practices in Large Companies**  
Väyrynen, H., Helander, N. & Kukko, M., 2014, In : The Macrotheme Review. 3, 9, p. 56-72 17 p., 3(9).  
Research output: Contribution to journal › Article › Scientific › peer-review

**Design: A Key Stage of Product Lifecycle**  
Bernard, A., Coatanea, E., Christophe, F. & Laroche, F., 2014, In : Procedia CIRP. 21, p. 3-9 7 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

### **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

### **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

### **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

### **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

### **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

### **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

### **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

### **Interdisciplinary water research network building within Nordic and Baltic countries.**

Sörensen, J., Kurki, V., Sidaraviciute, R., Ngari Kibocha, S., Retike, I., Ikobe, G., Tichonovas, M., Elijosiute, E. & Rajala, R., 2015, In : *Vatten*. 71, p. 79-83 5 p.  
Research output: Contribution to journal › Review Article › 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

### **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

### **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

### **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

### **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

### **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

### **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

### **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

### **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

### **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

### **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

### **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

### **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

### **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

### **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

### **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

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

Vainio, T. & Walsh, T., 13 Jul 2015, *Integrating Touch-Enabled and Mobile Devices into Contemporary Mathematics Education*. IGI Global, p. 79-96 18 p.

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

### **The New Era of Crowdsourcing — Industrial Crowdsourcing**

Kärkkäinen, H., Jussila, J. & Erkinheimo, P., 2015, *Open Innovation Yearbook 2015*. Salmelin, B. (ed.). Brussel: European Commission, p. 25-31 7 p.

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

### **Jossakin vuoti öljy, muualla tihkuivat tiedot - etiikka katoavien rajojen ja suurten skandaalien aikakaudella**

Lilja, K., 2015, *Silmät auki It-etiikkaan*. EDUSKUNNAN TULEVAISUUSVALIOKUNTA, p. 85-101 16 p. (Eduskunnan tulevaisuusvaliokunnan julkaisu; no. 12).

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

### **Townhouse-talotyyppin rakennuskustannukset: kolmen suunnitteluratkaisun taloudellisuuden analysointi**

Saari, A. & Tauriainen, M., 2015, *Nollaa parempi – Townhouse energiatehokkaassa asuinrakentamisessa*. Aalto-yliopisto, p. 94-97 4 p. (Aalto University publication series Crossover; no. 9/2015).

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

### **Aluetehokkuuden kustannusvaikutukset**

Nisula, J. & Saari, A., 2015, *Nollaa parempi – Townhouse energiatehokkaassa asuinrakentamisessa*. Aalto-yliopisto, p. 102-107 6 p. (Aalto University publication series Crossover; no. 9/2015).

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

### **On service composition - dynamic formation and orchestration of service workflows**

Lobov, A., 2015, *Open Knowledge-Driven Manufacturing and Logistics - The eScop Approach*. Strzelczak, S., Balda, P., Garetti, M. & Lobov, A. (eds.). Warsaw University of Technology Publishing House, p. 311-319 9 p.

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

### **Classification of Knowledge Representation Implementations in the Manufacturing Systems Domain**

Ramis Ferrer, B., 2015, *Open Knowledge-Driven Manufacturing & Logistics: The eScop Approach*. Strzelczak, S., Balda, P., Garetti, M. & Lobov, A. (eds.). Warsaw University of Technology Publishing House, p. 235-244 10 p.

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

### **A Proposal of Decentralized Architecture for OKD-MES**

Ferrer, B. R., 2015, *Open Knowledge-Driven Manufacturing & Logistics: The eScop Approach*. Strzelczak, S., Balda, P., Garetti, M. & Lobov, A. (eds.). Warsaw: Warsaw University of Technology Publishing House, p. 331-340 10 p.

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

#### **Water services heritage and institutional diversity**

Katko, T. S., Juuti, P., Pietilä, P. & Rajala, R., 2015, *Water and Heritage: material, conceptual and spiritual connections*. Willems, W. & van Schaik, H. (eds.). Sidestone Press

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

#### **Impact analysis of graph-based requirements models using PageRank algorithm**

Mokammel, F., Coatanea, E., Bakhouya, M., Christophe, F. & Nonsiri, S., Apr 2013, *2013 IEEE International Systems Conference (SysCon)*. IEEE, p. 731-736 6 p. (2013 IEEE International Systems Conference (SysCon)).

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

#### **OSS-TMM: Guidelines for improving the testing process of open source software**

Morasca, S., Taibi, D. & Tosi, D., 28 Feb 2013, *Open Source Software Dynamics, Processes, and Applications*. IGI Global, p. 59-78 20 p.

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

#### **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

#### **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

#### **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

#### **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

**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

**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

**Optical Frequency Comb Photoacoustic Spectroscopy**

Sadiek, 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

**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

**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

**Muovipäälysteisten 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*. S P I E - 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

**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

**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

#### **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

#### **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

#### **1.55- $\mu\text{m}$ 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

#### **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

#### **405-nm pumped Ce<sup>3+</sup>-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

#### **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

#### **1.3 $\mu\text{m}$ 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

#### **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

#### **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

#### **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

#### **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

#### **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

#### **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

#### **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

#### **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

### **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

### **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

### **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

### **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

### **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

### **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

### **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

### **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

### **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

### **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

### **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

### **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

### **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

### **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

### **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

#### **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

#### **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

#### **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

#### **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

#### **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

#### **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

#### **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

#### **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

#### **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

### **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

### **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

### **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

### **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

### **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

### **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

### **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

### **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

### **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

### **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

#### **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

#### **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

#### **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

#### **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

#### **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

#### **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

#### **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

#### **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

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

Karioja, P., Alajoki, T., Cherchi, M., Ollila, J., Harjanne, M., Heinilehto, 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

#### **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

#### **Highly-efficient Ho:KY(WO<sub>4</sub>)<sub>2</sub> 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., Diáz, 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

#### **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

#### **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

#### **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

#### **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

#### **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

#### **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

#### **High-speed manufacturing of antimicrobial paper**

Brobbe, 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

#### **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

#### **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

#### **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

#### **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

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

Solomitchii, 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

#### **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

#### **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

#### **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

#### **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

#### **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-Löyty, 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

#### **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

#### **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

#### **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

#### **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 ECMS 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

#### **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

#### **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

#### **The role of inorganics in modelling of biomass gasification**

Konttinen, 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

#### **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, J.C. & 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

#### **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

### **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

### **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

### **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

### **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

### **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

### **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



#### **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

#### **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

#### **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

#### **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

#### **Multi-wavelength mid-IR light source for gas sensing**

Karioja, P., Alajoki, T., Cherchi, M., Ollila, J., Harjanne, M., Heinilehto, 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

#### **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

#### **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

### **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., Kämpuri, 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

### **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

### **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

### **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

### **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

### **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

### **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

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

Sillberg, P., Veessommai, 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*. Somlertlamvanich, 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

### **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

### **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

#### **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

#### **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

#### **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

#### **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

#### **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

#### **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

#### **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

#### **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

#### **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

#### **Utilizing knowledge networks in virtual or augmented reality solution creation**

Vanhalakka, J., Ilvonen, I. & Väätäjä, 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

### **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

### **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

### **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

### **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

### **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

### **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

### **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

### **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

### **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

### **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

### **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

### **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

### **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

### **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

### **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

### **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

### **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

### **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

### **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

### **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

### **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

#### **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

#### **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

#### **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

#### **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

#### **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

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

Myllykoski, T., Pohjolainen, S. & Ali-Löytty, 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

#### **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

### **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

### **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

### **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

### **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

### **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

### **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

### **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

#### **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

#### **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

#### **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

#### **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

#### **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

#### **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

#### **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

#### **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

#### **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

#### **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

### **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

### **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

### **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

### **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

### **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 ISPIIM Innovation Conference 2016: Porto, 19-22 June, 2016*. p. 1-33

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

### **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

### **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

### **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

### **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, *CIREC Workshop 2016*.

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

### **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

### **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

### **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

### **Handling exceptional situations in a distribution network congestion management algorithm**

Kulmala, A. & Repo, S., Jun 2016, *CIREC Workshop 2016*. Helsinki, Finland

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

### **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, *CIREC Workshop 2016*. 4 p.

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

### **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

### **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

### **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

#### **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

#### **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

#### **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

#### **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

#### **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

#### **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

#### **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. & Smowton, 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

#### **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

#### **On Detecting the Shape of an Unknown Object in an Electric Field**

Humaloja, J-P., Hämäläinen, 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

#### **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

#### **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

#### **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

#### **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

### **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

### **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

### **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

### **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

### **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

### **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

### **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

### **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

### **Real Time Measurements of Temporal Rogue Waves and Spontaneous Modulation Instability in Optical Fiber**

Narhi, M., Wetzels, 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

### **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

#### **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

#### **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

#### **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

#### **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

#### **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

#### **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

#### **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

#### **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

#### **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

#### **Fabrication and characterization of broadband superluminescent diodes for 2 $\mu\text{m}$ 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

#### **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

#### **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

#### **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

#### **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

#### **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

#### **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

#### **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

#### **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

#### **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

#### **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

#### **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

#### **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

#### **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

#### **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

#### **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

#### **Direct Measurement of Temporal Rogue Waves Generated by Spontaneous Modulation Instability**

Närhi, 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

#### **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

#### **Simultaneous binary hash and features learning for image retrieval**

Frantc, V. A., Makov, S. V., Voronin, V. V., Marchuk, V. I., Semishchev, 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

#### **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

### **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

### **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

### **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

### **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

### **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

### **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

### **Lean Software Design, Lean Education? Lessons from a Collaborative University-Industry Seminar**

Olsson, T., Väättäjä, 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

### **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

### **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

### **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

### **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

#### **Back-calculation of the Saint-Alban A test embankment with a new modelling approach in LEM**

Lehtonen, V. & Lämsävaara, 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

#### **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

#### **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*. Gómes 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

#### **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

#### **New value chains to construction: advancing products and services**

Virtanen, J-P., Hyypä, H., Stähle, P., Kalliokoski, S., Kähkönen, K. E., Ahlavo, M., Launonen, P., Hyypä, 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

#### **Towards responsive workspaces - identification of service paths for time-and-place independent work**

Petrulaitiene, 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

#### **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

#### **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

#### **Design and simulation of a thermal flow sensor for gravity-driven microfluidic applications**

Mäki, A-J., Kontunen, A., Rynnänen, 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

#### **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

#### **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 vóór Duu rzame

Ontwikkeling vzw, p. 250-258 D.3.2

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

#### **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, *CISED Workshop 2016*. Institution of Engineering and Technology

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, *CISED Workshop 2016*. Institution of Engineering and Technology

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › 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, *CISED Workshop 2016*.

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

#### **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

#### **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

#### **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

#### **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

#### **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

### **Reinforcement Corrosion Modelling in Renovation Strategy for Concrete Facades**

Kölliö, 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

### **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

### **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

### **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

### **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

### **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

### **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*. IIIS, Vol. 2. p. 132-136 5 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

### **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

#### **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

#### **MYSTERY SHOPPERS RECOGNISING KNOWLEDGE SHARING BARRIERS IN HIGHER EDUCATION**

Tukiainen, M., Helander, N. & Mäkinen, M., 16 Nov 2015, *ICERI2015 Proceedings: 8th annual International Conference of Education, Research and Innovation Seville (Spain). 16th - 18th of November, 2015*. .  
Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

#### **University Students' Perceptions of Academic Writing: An Academic Literacies Perspective**

Tukiainen, M., Mäkinen, M. & Helander, N., 16 Nov 2015, *ICERI2015 Proceedings: 8th annual International Conference of Education, Research and Innovation Seville (Spain). 16th - 18th of November, 2015*. . p. 7589-7595 7 p.  
Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

#### **A NLOS-robust TOA positioning filter based on a skew-t measurement noise model**

Nurminen, H., Ardeshiri, T., Piche, R. & Gustafsson, F., 1 Oct 2015, *2015 International Conference on Indoor Positioning and Indoor Navigation (IPIN)*. IEEE, p. 1-7 7 p.  
Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

#### **Direct Laser Writing of Fluorescent Silver Nanoclusters in Polyvinyl Alcohol Films**

Karimi, N., Kunwar, P. & Toivonen, J., Oct 2015, *Frontiers in Optics 2015: Proceedings*. FTu5E.4  
Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

#### **Development of a Low-Cost Fuzzy Gain Schedule Neutralization Control System**

Sislian, R., Da Silva, F. V., Gedraite, R., Jokinen, H. & An, D. K. R., Oct 2015, *WCECS 2015 - World Congress on Engineering and Computer Science 2015*. Newswood Limited, Vol. II. p. 575-578 4 p. (Lecture Notes in Engineering and Computer Science; vol. 2220).  
Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

#### **Benchmarking of Factory Level ESD Control**

Viheriäkoski, T., Kohtamäki, J., Peltoniemi, T. & Tamminen, P., 27 Sep 2015, *Electrical Overstress/Electrostatic Discharge Symposium Proceedings 2015*. USA: IEEE COMPUTER SOC, Vol. 2015. 7 p. 6B.1  
Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

#### **The effect of USB ground cable and product dynamic capacitance on IEC61000-4-2 qualification**

Tamminen, P., Ukkonen, L. & Sydänheimo, L., 27 Sep 2015, *Electrical Overstress / Electrostatic Discharge Symposium Proceedings 2015*. USA: IEEE COMPUTER SOC, Vol. 2015. 10 p. 7B.2  
Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

#### **Uncertainties in Charge Measurements of ESD Risk Assessment**

Viheriäkoski, T., Kohtamäki, J., Peltoniemi, T. & Tamminen, P., 27 Sep 2015, *Electrical Overstress / Electrostatic Discharge Symposium Proceedings 2015*. USA: IEEE COMPUTER SOC, Vol. 2015. 8 p. 6B.3  
Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

#### **ESD and Disturbance Cases in Electrostatic Protected Areas**

Tamminen, P., Viheriäkoski, T., Ukkonen, L. & Sydänheimo, L., 27 Sep 2015, *Electrical Overstress / Electrostatic Discharge Symposium Proceedings 2015*. USA: IEEE COMPUTER SOC, Vol. 2015. 7 p. 5B.2  
Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

#### **Circularly Polarized Textile Antenna For 2.45 GHz**

Rizwan, M., Rahmat-Samii, Y. & Ukkonen, L., 21 Sep 2015, *Circularly Polarized Textile Antenna For 2.45 GHz*. IEEE, p. 51-52 2 p.  
Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

#### **Compensation of PV generator output power fluctuations with energy storage systems**

Schnabel, J. & Valkealahti, S., 14 Sep 2015, *31st European Photovoltaic Solar Energy Conference and Exhibition (31st EU PVSEC), 14– 18 September, 2015, Hamburg, Germany*. p. 2177-2181 5 p.

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

#### **Recognition of shading events caused by moving clouds and determination of shadow velocity from solar radiation measurements**

Lappalainen, K. & Valkealahti, S., 14 Sep 2015, *31st European Photovoltaic Solar Energy Conference and Exhibition (31st EU PVSEC), 14– 18 September, 2015, Hamburg, Germany*. p. 1568-1573 6 p.

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

#### **Knowledge Management and Emerging Collaborative Networks in Tourism Business Ecosystems**

Ammirato, S., Michele Felicetti, A., Della Gala, M., Aramo-Immonen, H. & Jussila, J., 3 Sep 2015, *Proceedings of the 16th European Conference on Knowledge Management (ECKM 2015), University of Udine, Italy, 3-4 September 2015*.

Massaro, M. & Garlatti, A. (eds.). Reading, UK: Academic Conferences and Publishing International Limited, p. 19-26 7 p.

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

#### **Coopetition and company performance**

Helander, N., Vesalainen, J. & Juha, P., 2 Sep 2015, *IMP 2015 Conference*.

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

#### **Risk Assessment of Major Storm Situation in Distribution System**

Dehghani, N., Supponen, A. & Repo, S., 1 Sep 2015, *2015 50th International Universities Power Engineering Conference (UPEC)*. IEEE

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

#### **Two-turns antenna and magnetic materials for effective powering of mm-size implant in wireless brain-machine interface system**

Khan, W., Björninen, T., Ukkonen, L. & Sydänheimo, L., Sep 2015, *2015 IEEE MTT-S 2015 International Microwave Workshop Series on RF and Wireless Technologies for Biomedical and Healthcare Applications (IMWS-BIO)*. IEEE, p. 103-104 2 p.

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

#### **Augmenting Technology Trees: Automation and Tool Support**

Heinimäki, T. J. & Elomaa, T., Sep 2015, *Proceedings of the Seventh International Conference on Virtual Worlds and Games for Serious Applications (VS-Games 2015)*. IEEE, p. 68-75 8 p.

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

#### **Effects of surface cracks and strain rate on the tensile behavior of Balmoral Red granite**

Mardoukhi, A., Hokka, M. & Kuokkala, V-T., Sep 2015, *11th International Conference on the Mechanical and Physical Behaviour of Materials Under Dynamic Loading*. EDP Sciences, 02007

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