

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

1180nm VECSEL with 50 W output power

Kantola, E., Leinonen, T., Ranta, S., Tavast, M., Penttinen, J-P. & Guina, M., 2015, *Proceedings of SPIE - The International Society for Optical Engineering*. SPIE, Vol. 9349. 93490U

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

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

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

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

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

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

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

1800-luvun Helsingin kadonneiden konserttitilojen akustiikan mallintaminen

Niemi, H., Kylliäinen, M., Jäppinen, J. & Lindqvist, M., 1 Sep 2015, *Akustiikkapäivät 2015*. Kuopio, p. 77-82 6 p. (Akustiikkapäivät).

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

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

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

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

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

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

50 W VECSEL emitting at 1180 nm

Kantola, E., Leinonen, T., Penttinen, J-P., Tavast, M., Ranta, S. & Guina, M., 2015, *2015 Conference on Lasers and Electro-Optics Europe - European Quantum Electronics Conference, 21.-25.6. Munich, Germany: CB_3_1*. OSA

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

73-fs SESAM mode-locked Tm,Ho:CNNG laser at 2061 nm

Wang, Y., Zhao, Y., Pan, Z., Suomalainen, S., Härkönen, A., Guina, M., Griebner, U., Wang, L., Loiko, P., Mateos, X., Chen, W. & Petrov, V., 2020, *Solid State Lasers XXIX: Technology and Devices*. Clarkson, W. A. & Shori, R. K. (eds.). SPIE, 1125929. (Proceedings of SPIE - The International Society for Optical Engineering; vol. 11259).

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

8th Nordic Conference on Construction Economics and Organization

Kähkönen, K. (ed.), 2015, In : *Procedia Economics and Finance*. 21

Research output: Contribution to journal > Special issue > 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

A Batteryless Semi-Passive RFID Sensor Platform

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

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

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

Abstracting Application Development for Resource Constrained Wireless Sensor Networks

Laukkarinen, T., 4 Sep 2015, Tampere: Tampere University of Technology. 104 p. (Tampere University of Technology. Publication; vol. 1306)

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

A Capacity Bound for mmWave-based Channel Access in Ultra-Dense Wearable Deployments

Galinina, O., Turlikov, A., Pyattaev, A., Johnsson, K., Andreev, S. & Koucheryavy, Y., 2015, *2015 7th International Congress on Ultra Modern Telecommunications and Control Systems and Workshops (ICUMT)*. IEEE, p. 298-304 7 p.

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

Accessible Games for Blind Children, Empowered by Binaural Sound

Drossos, K., Zormpas, N., Giannakopoulos, G. & Floros, A., Jul 2015, *Proceedings of the 8th ACM International Conference on Pervasive Technologies Related to Assistive Environments*. New York, NY, USA: Association for Computing Machinery (ACM), p. 5:1-5:8 8 p. (PETRA '15).

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

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

Messo, T., Roinila, T., Aapro, A. & Luhtala, R., 2019, In : *IEEJ JOURNAL OF INDUSTRY APPLICATIONS*. 8, 3, p. 488-496 9 p.

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

A computationally feasible optimization approach to inverse SAR translational motion compensation

Vehmas, R., Jylhä, J., Väilä, M. & Kymälä, J., 2015, *Proceedings of the 12th European Radar Conference (EuRAD 2015)*. IEEE, p. 17-20 4 p.

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

A continuum based macroscopic unified low- and high cycle fatigue model

Frondelius, T., Holopainen, S., Kouhia, R., Ottosen, N. S., Ristinmaa, M. & Vaara, J., 2 Dec 2019, In : *MATEC Web of Conferences*. 300, 8 p., 16008.

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

A continuum damage model for creep fracture and fatigue analyses

Kauppila, P., Kouhia, R., Ojanperä, J., Saksala, T. & Sorjonen, T., 2016, *21st European Conference on Fracture, ECF21, 20-24 June 2016, Catania, Italy*. p. 887–894 8 p. (Procedia Structural Integrity; vol. 2).

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

A 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

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

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

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

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, 1080200. (Proceedings of SPIE; vol. 10802).

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

Active corrosion phase as a service life extension of concrete facades

Köliö, A., Lahdensivu, J. & Pentti, M., 2015, *Proceedings of the Eurocorr 2015, European corrosion congress*. Austrian Society for Metallurgy and Materials (ASMET); EFC; DECHEMA

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

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

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

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 Mechatronics : (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

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

Advanced coatings by novel high-kinetic thermal spray processes

Matikainen, V., Koivuluoto, H., Milanti, A. & Vuoristo, P., 9 Feb 2015, In : *Materia*. 73, 1, p. 46-50 5 p.

Research output: Contribution to journal › Article › Professional

Advanced Treatments of Aramid Fibers for Composite Laminates

Kanerva, M., 2020, *Fiber Composites*. Ngo, T-D. (ed.). London, UK: InTech Open Access Publisher, 12 p.

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

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

A dynamic paper machine simulator for testing of model predictive control applications

Yli-Fossi, T. & Kuusisto, R., 2015, *Proceedings of AutomaatioXXI seminaari*. Suomen Automaatioseura ry, p. 1-6 6 p. (SAS julkaisusarja; no. 42).

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

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

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

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

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

ÄKK-hankkeen suositukset tulevaisuuden ääneneristysmääräyksiä koskien

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

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

Alipaineistetun tuulettuvan ryömintätilan rakennusfysikaaliset FEM-simuloinnit

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

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

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

All-fiber mode-locked laser at 0.98 μm

Aleshkina, S. S., Lipatov, D. S., Velmiskin, V. V., Kochergina, T. A., Fedotov, A., Gumenyuk, R., Kotov, L. V., Temyanko, V. L., Bubnov, M. M., Guryanov, A. N. & Likhachev, M. E., 2020, *Fiber Lasers XVII: Technology and Systems*. Dong, L. (ed.). SPIE, p. 184 - 189 (Proceedings of SPIE; vol. 11260).

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

Aluetehokkuuden kustannusvaikutukset

Nisula, J. & Saari, A., 2015, *Nollaa parempi – Townhouse energitehokkaassa 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

Älykäs kaupunkilogistiikka – CityLog

Translated title of the contribution: : Smart city logistics

Nykänen, L., Kallionpää, E. & Liimatainen, H., Sep 2015, Tampereen teknillinen yliopisto. Liikenteen tutkimuskeskus Verne. 20 p. (Tampereen teknillinen yliopisto. Liikenteen tutkimuskeskus Verne. Tutkimusraportti)

Research output: Book/Report > Commissioned report > Professional

Älylaitteet ja stressi: Aiheuttajat, seuraukset ja hallintakeinot

Salo, M. & Pirkkalainen, H., 2019, *Lapset, nuoret ja älylaitteet - Taiten tasapainoon*. Kosola, S., Moisala, M. & Ruokonieni, P. (eds.). KUSTANNUS OY DUODECIM, p. 79-90 12 p.

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

A membrane external-cavity surface-emitting laser (MECSEL) with emission around 825 nm

Phung, H. M., Kahle, H., Penttinen, J-P., Rajala, P., Ranta, S. & Guina, M., 2020, *Vertical External Cavity Surface Emitting Lasers (VECSELs)* X. Hastie, J. E. (ed.). SPIE, 112630H. (Proceedings of SPIE - The International Society for Optical Engineering; vol. 11263).

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

A model based analysis of the measurement errors in inductively coupled passive resonance sensors

Salpavaara, T. & Lekkala, J., 2015, *IMEKO XXI World Congress, Proceedings, August 30 - September 4, 2015, Prague, Czech Republic*. Holub, J. (ed.). 4 p.

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

A model for anisotropic magnetostriction

Belahcen, A., Kouhia, R., Rasilo, P. & Ristinmaa, M., 2015, *Proceedings of the XII Finnish Mechanics Days*. Rakenteiden Mekaniikan Seura ry, p. 201-203 3 p.

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

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

An accurate small-signal model of a three-phase VSI-based photovoltaic inverter with LCL-filter

Aapro, A., Messo, T. & Suntio, T., 2015, *9th International Conference on Power Electronics and ECCE Asia (ICPE-ECCE Asia)*. p. 2267-2274 8 p.

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

Analysis of Cognitive Cooperative Networks with Best Relay Selection and Diversity Reception

Ho-Van, K., Sofotasios, P. C., Que Son, V., Thanh Tra, L. & Hong Lien, P., 2015, *2015 International Conference on Advanced Technologies for Communications (ATC)*. IEEE, p. 651-656 6 p.

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

Analysis of Crowdsensed WiFi Fingerprints for Indoor Localization

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

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

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

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

Analysis of the aircraft operational reliability research series: From statistical models to avionics data monitoring

Laitinen, J. & Niemi, A., 2015, *Proceedings of the 9th World congress on engineering asset management (WCEAM 2014)*, Pretoria, South Africa 28-31 Oct, 2014. 15 p.

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

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

Analysis on bus travel time through traffic light intersection

Kerminen, R., Wang, C. & Visa, A., 2015, *ITS World Congress 2015 Proceedings: Towards Intelligent Mobility – Better Use of Space*. 10 p. EU-ITS-2051

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

An anisotropic continuum damage model for concrete

Yaghoubi, S. T., Hartikainen, J., Kolari, K. & Kouhia, R., 2015, *Proceedings of the XII Finnish Mechanics Days: Suomen XII mekaniikkapäivien esitelmät*. Kouhia, R., Mäkinen, J., Pajunen, S. & Saksala, T. (eds.). Rakenteiden Mekaniikan Seura ry, p. 51-56 p.

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

An approval of MPPT based on pv cell's simplified equivalent circuit during fast-shading conditions

Rajput, S., Averbukh, M., Yahalom, A. & Minav, T., 1 Sep 2019, In : *Electronics* (Switzerland). 8, 9, 14 p., 1060.

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

A new generation sweating thermal manikin for the evaluation of the thermal comfort of protective clothing in Arctic Conditions

Varheenmaa, M., 2015, *Arctic Wears - Perspectives on Arctic Clothing*. Konola, S. & Kähkönen, P. (eds.). Lapland University of Applied Sciences, p. 154-161 7 p. (Liiketoiminta ja yrittäjyys Sarja B. Raportit ja selvitykset 10/2015).

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

A new method to calculate natural convection heat transfer from a non-isothermal fin array

Lampio, K. & Karvinen, R., 2015, *Proceedings of the 7th Baltic Heat Transfer Conference, August 24-26 2015, Tallinn Estonia*. Neshumayev, D. & Sunden, B. (eds.). Tallinn: Tallinn University of Technology, (Baltic Heat Transfer Conference BHTC).

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

An example of scenario-based evaluation of military capability areas An impact assessment of alternative systems on operations

Suojanen, M., Kuikka, V., Nikkarila, J. P. & Nurmi, J., 2 Jun 2015, *9th Annual IEEE International Systems Conference, SysCon 2015 - Proceedings*. The Institute of Electrical and Electronics Engineers, Inc., p. 601-607 7 p.

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

An experimental and numerical study of the dynamic Brazilian disc test on Kuru granite

Mardoukhi, A., Saksala, T., Hokka, M. & Kuokkala, V-T., 2015, *Proceedings of the XII Finnish Mechanics Day*. p. 210-215 6 p.

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

An Initial Homophily Indicator to Reinforce Context-Aware Semantic Computing

Rivero-Rodriguez, A., Pileggi, P. & Nykänen, O., 2015, *7th International Conference on Computational Intelligence, Communication Systems and Networks (CICSyN)*. Riga: IEEE, p. 89-93 5 p. (International Conference on Computational Intelligence, Communications and Networks).

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

Anomaly Detection and Diagnostics of a Wheel Loader Using Dynamic Mathematical Model and Joint Probability Distributions

Krogerus, T., Hyvönen, M., Backas, J. & Huhtala, K., 2015, *Proceedings of the Fourteenth Scandinavian International Conference on Fluid Power, SICFP15. May 20-22, 2015. Tampere, Finland*. Tampere University of Technology. Department of Intelligent Hydraulics and Automation, 14 p. (The Scandinavian International Conference on Fluid Power).

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

Anticancer activity of THMPP: Downregulation of PI3K/ S6K1 in breast cancer cell line

Palanivel, S., Murugesan, A., Yli-Harja, O. & Kandhavelu, M., 1 Apr 2020, In : Saudi Pharmaceutical Journal. 28, 4, p. 495-503 9 p.

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

Appearance of a Drift Problem in Variable-step Perturbative MPPT Algorithms

Kivimäki, J. & Suntio, T., 2015, *31st European Photovoltaic Solar Energy Conference and Exhibition (EU PVSEC)*. p. 1602-1608 7 p.

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

Application and Theory of Petri Nets and Concurrency: 36th International Conference, PETRI NETS 2015 Brussels, Belgium, June 21-26, 2015 Proceedings

Devillers, R. (ed.) & Valmari, A. (ed.), 2015, Springer Verlag. (Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics); vol. 9115)

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

Application of terrestrial LiDAR and modelling of tree branching structure for plant- scaling models in tropical forest trees

Lau Sarmiento, A., Bartholomeus, H., Herold, M., Martius, C., Malhi, Y., Patrick Bentley, L., Shenkin, A. & Raunonen, P., 2015, *Proceedings of SilviLaser 2015: 14th conference on Lidar Applications for Assessing and Managing Forest Ecosystems*. p. 96-98 3 p.

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

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

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

Arbitrary Land Use Policy in Jordan between Legal Brand and Property Control

Tewfik, M. & Amr, A., Dec 2014, In : European International Journal of Science and Technology. 3, 9, p. 86-93 8 p.

Research output: Contribution to journal › Article › General public

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

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

Architecture for Open, Knowledge-Driven Manufacturing Execution System

Iaroyi, S., Xu, X., Lobov, A., Lastra, J. L. M. & Strzelczak, S., 2015, *Advances in Production Management Systems: Innovative Production Management Towards Sustainable Growth*. Springer, p. 519-527 9 p.

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

Are Finns walking the talk?: Examining the national collaboration process on engineering education for sustainable development five years later

Takala, A. & Korhonen-Yrjänheikki, K., 1 Jun 2015, *Conference on Engineering Education for Sustainable Development (7th : 2015 : Vancouver, B.C.)*.

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

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

Arkinen liikkuminen kontekstina kaupunkitilan tarkasteluun

Tartia, J., 2015, In : *Versus*.

Research output: Contribution to journal > Special issue > Scientific

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

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

A Socially-Intelligent Multi-Robot Service Team for In-Home Monitoring

Drossos, K., Floros, A., Potirakis, S., Tatlas, N-A. & Tuna, G., Jul 2014, *Information, Intelligence, Systems and Applications, IISA 2014, The 5th International Conference on*. IEEE, p. 159-164

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

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

Assessing sustainability orientations of first year university students

Saari, U., Venesaar, U., Ojasoo, M., Mäkinen, S. & Nokelainen, P., 13 Aug 2019, *79th Annual Meeting of the Academy of Management Proceedings: Symposium on Reported Impacts of Sustainability in Management Education and Engagement, August 9-13, 2019, Boston, Massachusetts, USA*. Academy of Management, p. 1-8 8 p. (Academy of management proceedings).

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

Assessment of Coordinated Multipoint Transmission Modes for Indoor and Outdoor Users at 28 GHz in Urban Macrocellular Environment

Sheikh, M., Biswas, R., Lempiainen, J. & Jantti, R., 16 Mar 2019, In : *Advances in Science, Technology and Engineering Systems Journal (ASTESJ)*. 4, 2, p. 119-126 8 p.

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

Assessment of student retention using the Evolute approach, an overview

Einolander, J. & Vanharanta, H., 2015, *6th International Conference on Applied Human Factors and Ergonomics (AHFE 2015) and the Affiliated Conferences, AHFE 2015*. Elsevier, p. 581-586 6 p. (Procedia Manufacturing; vol. 3).

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

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

Grigonyte, J., Sippula, O., Tissari, J., Laitinen, A., Keskinen, J., Kortelainen, M., Lamberg, H. & Jokiniemi, J., 2015, *European Aerosol Conference 2015: EAC 2015, Milan, Italy*. 2COA_P021

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

A study on the behaviour of the weathered crust in the Perniö failure test

D'Ignazio, M., Di Buo, B. & Lämsävaara, T., 2015, *Proceedings of the XVI ECSMGE 2015: 13-17 September 2015 - Edinburgh, Geotechnical Engineering for Infrastructure and Development*. ICE Publishing, p. 3639-3644 6 p.

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

Asuinhuoneistojen betonivälipohjien askelääneneristyksen subjektiivinen ja objektiivinen arviointi

Kylliäinen, M., Oliva, D., Rekola, L. & Hongisto, V., 1 Sep 2015, *Akustiikkapäivät 2015*. Kuopio: Akustinen seura, p. 204-207 4 p. (Akustiikkapäivät).

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

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

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

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

A unified lcf-hcf model based on continuum mechanics

Kouhia, R., Holopainen, S., Ottosen, N. S., Matti, R. & Saksala, T., 2016. 4 p.

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

Automated driving and the key megatrends of future

Pöllänen, M. & Nykänen, L., 2014, *ITS European Congress: 10th ITS EUROPEAN CONGRESS, Helsinki, Finland 16-19 June 2014*. TP0067

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

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

Automated Tonal Balance Enhancement for Audio Mastering Applications

Mimilakis, S. I., Drossos, K., Floros, A. & Katerelos, D., May 2013, *Audio Engineering Society Convention 134*. AES Audio Engineering Society, 7 p.

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

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

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

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

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

Lehtonen, V. & Länsivaara, T., 2016, *Proceedings of the The 17th Nordic Geotechnical Meeting, Reykjavik Iceland: 25th - 28th of May 2016*. p. 691-699 9 p.

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

Backend infrastructure supporting audio augmented reality and storytelling

Salo, K., Giova, D. & Mikkonen, T., 2016, *Human Interface and the Management of Information: Applications and Services: 18th International Conference, HCI International 2016 Toronto, Canada, July 17-22, 2016. Proceedings, Part II*. Springer Verlag, p. 325-335 11 p. (Lecture Notes in Computer Science; vol. 9735).

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

Background-Free Second-Harmonic Generation Microscopy of Individual Carbon Nanotubes

Bautista, G. S., Johansson, A., Parappurath, N., Herranen, O., Myllyperkiö, P., Jiang, H., Kauppinen, E., Pettersson, M. & Kauranen, M., 2015, *Nonlinear Optics 2015: Kauai, Hawaii United States 26-31 July 2015*. OSA, 2 p. NW1A.5. (Nonlinear Optics Conference Series).

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

Balancing Expectations to the Health Software Production Process Standard

Värri, A., 2015, *The 3rd International Virtual Research Conference In Technical Disciplines*. (RCITD - Proceedings in Research Conference in Technical Disciplines).

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

Barkhausen noise Potcore sensor simulations with Comsol

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

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

Beaconing in a highway scenario: Vulnerable vehicles problem

Tariq, A. B., 2012, *Proceedings of the 11th Conference of Open Innovations Association FRUCT, FRUCT 2012*. IEEE, Vol. 2012-April. p. 169-175 7 p.

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

BEADS: A dataset of Binaural Emotionally Annotated Digital Sounds

Drossos, K., Floros, A. & Giannakoulopoulos, A., 1 Jul 2014, *Information, Intelligence, Systems and Applications, IISA 2014, The 5th International Conference on*. IEEE, p. 158-163 6 p.

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

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

Tuominen, E., Vinha, J. & Raunima, T., 2019, In : *MATEC Web of Conferences*. 282, 6 p., 02053.

Research output: Contribution to journal › Conference article › 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

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

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. & Cudél, 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

Benefits of digitally guided buying in B2B markets

Ojala, M. & Mahlamäki, T., 2016, *25th annual IPSERA Conference: Dortmund, Sunday 20 March - Wednesday 23 March 2016*. Dortmund

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

Betonin kosteusteknisten materiaaliominaisuuksien määrittäminen

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

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

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

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

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

Biocaced nanofibrilated films and yarns via ionic liquids

Reyes, G., Lundahl, M., Borghei, M., King, A. W. T., Lahti, J. & Rojas, O. J., 2019, In : *Celulosa Y Papel*. 35, 4, p. 18-20 3 p.

Research output: Contribution to journal › Article › 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

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

Blind estimation of speckle variance in synthetic aperture radar images

Abramova, V. V., Kozhemiakin, R., Abramov, S. K., Lukin, V. V., Zelensky, A. A. & Egiazarian, K., 25 Jun 2015, *2015 International Conference on Antenna Theory and Techniques: Dedicated to 95 Year Jubilee of Prof. Yakov S. Shifrin, ICATT 2015 - Proceedings*. The Institute of Electrical and Electronics Engineers, Inc.

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

Boundary Integral Operators in Linear and Second-order Nonlinear Nano-optics

Mäkitalo, J., 29 May 2015, Tampere University of Technology. 73 p. (Tampere University of Technology. Publication; vol. 1297)

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

Breathers Emergence in Spontaneous Modulation Instability

Toenger, S., Godin, T., Billet, C., Dias, F., Erkintalo, M., Genty, G. & Dudley, J. M., 2015, *European Quantum Electronics Conference 2015*. Optical Society of America (OSA), EF_P_25

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

Brownfield Process: A Method for the Rationalisation of Existing Product Variety towards a Modular Product Family

Pakkanen, J., 29 May 2015, Tampere University of Technology. 283 p. (Tampere University of Technology. Publication; vol. 1299)

Research output: Book/Report > Doctoral thesis > Monograph

Building Codes and Demand Response of Energy Use

Sorri, J., Heljo, J., Järventausta, P., Honkapuro, S. & Harsia, P., 2016, *Proceedings of the CIB World Building Congress 2016: Volume IV: Understanding Impacts and Functioning of Different Solutions*. Nenonen, S. & Junnonen, J.-M. (eds.). Tampere University of Technology. Department of Civil Engineering, Vol. 4. p. 8-21 14 p.

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

Building energy retrofits, occupant health and wellbeing

Haverinen-Shaughnessy, U., Pekkonen, M., Turunen, M., Aaltonen, A. & Leivo, V., 2016, *CIB World Building Congress 2016 Proceedings : Volume 2 Environmental Opportunities and challenges - Constructing commitment and acknowledging human experiences*. Prins, M., Wamelink, H., Giddings, B., Ku, K. & Feenstra, M. (eds.). Tampere University of Technology. Department of Civil Engineering, Vol. 2. p. 679-687 9 p.

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

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

Business analytics enabling future insights in the private healthcare

Ratia, M. & Myllärniemi, J., 2019, *Proceedings of 14th IFKAD 2019 conference: Matera, Italy, 5-7 June, 2019*. IKAM Centro Studi & Ricerche, (Proceedings IFKAD).

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

Business catalysts for the Circular Economy innovations

Aarikka-Stenroos, L. & Ranta, V., Jun 2019, *Proceedings of The XXX ISPIM INNOVATION CONFERENCE - Celebrating Innovation - 500 Years Since Da Vinci : 16-19 June 2019 - Florence, Italy*. International Society for Professional Innovation Management ISPIM

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

Business intelligence process model revisited

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

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

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

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

By64 Tuulettuvat julkisivut 2016 -suunnittelu- ja toteusohjeen laadinta

Annala, P., Lahdensivu, J., Pikkuvirta, J. & Pakkala, T., 20 Oct 2015, *Rakennusfysiikka 2015. Uusimmat tutkimustulokset ja hyvät käytännön ratkaisut. 20.-22.10.2015, Tampere*. Vinha, J. & Ruuska, T. (eds.). Tampere: Tampereen teknillinen yliopisto, rakennustekniikan laitos, rakennetekniikka, p. 109-114 6 p.

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

Calcium signaling in astrocytes: modeling Fura-2AM measurements

Toivari, E., Manninen, T., Nahata, A. K., Jalonen, T. O. & Linne, M.-L., 2010, In : *Frontiers in Neuroscience*. 1 p.

Research output: Contribution to journal > Meeting Abstract > Scientific > peer-review

Calculation method to determine capillary properties of building materials with automatic free water intake test

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

Research output: Contribution to journal > Conference article > 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

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

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

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

Case depth prediction of nitrided components

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

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

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

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

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

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

CBRN Defense Using THz Pulse Trains from Semiconductor Disk Lasers

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

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

CEO 2015: Proceedings of the 8th Nordic Conference on Construction Economics and Organization

Kähkönen, K. (ed.), Huovinen, P. (ed.) & Keinänen, M. (ed.), 2015, Tampere University of Technology. Department of Civil Engineering. 40 p. (Tampere University of Technology. Department of Civil Engineering. Construction Management and Economics. Report; vol. 16)

Research output: Book/Report › Commissioned report › Professional

Challenges Facing BIM Education: Development of Appropriate Teaching and Learning Resources

Puolitaival, T., Forsythe, P. & Kähkönen, K., 2015, *RICS COBRA AUBEA 2015: The Construction, Building and Real Estate Research Conference of the Royal Institution of Chartered Surveyors*. London: Royal Institution of Chartered Surveyors

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

Challenges in developing data-based value creation

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

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

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

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

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

Changes in operations when introducing disruptive technologies

Martinsuo, M., Ahvenniemi, O. & Vaittinen, E., 2015, *22nd EurOMA Conference: Operations management for sustainable competitiveness*. Switzerland: European Operations Management Association

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

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

Characteristics of Digital Hydraulics with Commercial Controllers

Huova, M., Ahopelto, M., Ketonen, M., Ahola, V., Linjama, M. & Huhtala, K., Feb 2015, *The Seventh Workshop on Digital Fluid Power*. Linz Center of Mechatronics, p. 114-128 15 p.

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

Characterizing the Context of Use in Mobile Work

Väätäjä, H., 2015, *Human Work Interaction Design. Work Analysis and Interaction Design Methods for Pervasive and Smart Workplaces: 4th IFIP 13.6 Working Conference, HWID 2015, London, UK, June 25-26, 2015, Revised Selected Papers*. Springer Verlag, p. 97-113 167 p. (IFIP Advances in Information and Communication Technology; vol. 468).

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

Charged cable-system ESD event

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

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

Charge relaxation of slowly dissipative polymers

Viheriäköski, 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

Charlie and the CryptoFactory: Towards Secure and Trusted Manufacturing Environments

Michalás, A. & Kiss, T., 2020, *20th IEEE Mediterranean Electrotechnical Conference, MELECON 2020: Proceedings*. IEEE, p. 141-146 6 p. (IEEE Mediterranean Electrotechnical Conference).

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

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

Clean Components of Fluid Power System Reduce Maintenance Costs

Rinkinen, J. & Elo, L., 1 Oct 2015, *Maintenance, Condition Monitoring and Diagnostics; Maintenance Performance Measurement and Management: MCMD 2015 and MPMM 2015*. 8 p. 2 (2015-10-01)

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

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

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

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

Coarse-grained model of protein interaction for bio-inspired nano-communication

Knyazev, S., Tarakanov, S., Kuznetsov, V., Porozov, Y., Koucheryavy, Y. & Stepanov, E., 6 Jan 2015, *2014 6th International Congress on Ultra Modern Telecommunications and Control Systems and Workshops (ICUMT)*. p. 260-262 3 p.

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

Co-creating digital services for citizens: Activity theory analysis

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

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

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

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

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

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

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

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

Combining Product Innovation With Service Innovation to Increase Value Created With a System

Ritola, T. & Coatanea, E., 2014, *Proceedings of the ASME international mechanical engineering congress and exposition, 2013, vol 12*. AMER SOC MECHANICAL ENGINEERS, 10 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

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

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

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

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

Comparing capacity gains of static and UAV-based millimeter-wave relays in clustered deployments

Gapeyenko, M., Petrov, V., Moltchanov, D., Yeh, S. P., Himayat, N. & Andreev, S., 2020, *2020 IEEE International Conference on Communications Workshops, ICC Workshops 2020 - Proceedings*. IEEE, 7 p. (IEEE/CIC international conference on communications in China - workshops).

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

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

Ruusala, A., Laukkarinen, A. & Vinha, J., 2019, In : MATEC Web of Conferences. 282, 6 p., 02085.

Research output: Contribution to journal > Conference 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

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

Comparison of Sintering Methods and Conductive Adhesives for Interconnections in Inkjet-Printed Flexible Electronics
Niittynen, J., 24 Apr 2015, Tampere University of Technology. 62 p. (Tampere University of Technology. Publication; vol. 1291)

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

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

Competence portfolio assessment of research and development center for regional development

Salminen, V., Kantola, J. I. & Vanharanta, H., 2015, *6th International Conference on Applied Human Factors and Ergonomics (AHFE 2015) and the Affiliated Conferences, AHFE 2015*. Elsevier, p. 701-708 9 p. (Procedia Manufacturing; vol. 3).

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

Complex-domain sparse imaging in terahertz pulse time-domain holography with balance detection

Kulya, M. S., Katkovnik, V., Egiazarian, K. & Petrov, N. V., 2020, *Terahertz, RF, Millimeter, and Submillimeter-Wave Technology and Applications XIII*. Sadwick, L. P. & Yang, T. (eds.). SPIE, 1127921. (Proceedings of SPIE; vol. 11279).

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

Complexity and Digitalisation of Cities - Challenges for Urban Planning and Design: Conference Proceedings of 13th AESOP Complexity and Planning Thematic Group Meeting 15th-16th January 2015, Tampere, Finland

Partanen, J. (ed.), 2015, Tampere University of Technology. School of Architecture. 226 p.

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

Composite Nonlinear Feedback Control of a Chemical Reactor

Pyrhönen, V-P. & Koivisto, H., 18 Mar 2015, *Proceedings of AutomaatioXXI, The Industrial Revolution of Internet – From Intelligent Devices to Networked Intelligence*. Helsinki, Finland: Suomen Automaatioseura ry, (SAS julkaisusarja; vol. 44).

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

Comprehensive survey of similarity measures for ranked based location fingerprinting algorithm

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

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

Computational modelling of high-cycle fatigue using a continuum based model

Holopainen, S., Kouhia, R., Könnö, J. & Saksala, T., 2015, *Proceedings of the NSCM28: 28th Nordic Seminar on Computational Mechanics, October 22 – 23, 2015, Tallinn, Estonia*. p. 71-74 4 p.

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

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

Computer-supported collaborative learning: Praxes in new cell-oriented configurable PC-classroom

Pyrhönen, V-P., Seppälä, J. & Salmenperä, M., 2016, *SEFI conference 2016: Engineering Education on Top of the World: Industry University Cooperation*. 9 p.

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

Computer vision aided navigation systems

Davidson, P. & Merkulova, I., 2016, *23rd Saint Petersburg International Conference on Integrated Navigation Systems, ICINS 2016 - Proceedings*. State Research Center of the Russian Federation, p. 560-562 3 p.

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

Concentration and composition gradients of exhaust and non-exhaust particles near a major road

Niemi, J. V., Saarikoski, S., Pirjola, L., Taimisto, P., Pulkkinen, A., Yli-Tuomi, T., Lanki, T., Kousa, A., Enroth, J., Kuuluvainen, H., Rönkkö, T. & Hillamo, R., 2015, *EAC 2015, European Aerosol Conference, 6-11 September, 2015, Milan, Italy*.

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

Conceptualization of hackathon for innovation management

Halvari, S., Suominen, A., Jussila, J., Jonsson, V. & Bäckman, J., 16 Jun 2019, *The proceedings of The XXX ISPIM INNOVATION CONFERENCE - Celebrating Innovation - 500 Years Since Da Vinci The International Society for Professional Innovation Management: 16-19 June 2019 - Florence, Italy*. Bitran, I., Conn, S., Gernreich, C., Heber, M., Huizingh, K. R. E., Kokshagina, O., Torkkeli, M. & Tynnhammer, M. (eds.). Florence Italy: The International Society for Professional Innovation Management (ISPIM), Vol. 93. 17 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

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

Constrained PSK: Energy-efficient modulation for Sub-THz systems

Nasarre, I. P., Levanen, T. & Valkama, M., 2020, *2020 IEEE International Conference on Communications Workshops, ICC Workshops 2020 - Proceedings*. IEEE, 7 p. (IEEE/CIC international conference on communications in China - workshops).

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

Consumer acceptance in new service innovation: Enhancing consumer durables with new product-related services.

Vaittinen, E. & Nenonen, S., 2015, *Proceedings of the 22nd Innovation Product Development Management Conference (IPDMC)*. (International Product Development Management Conference).

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

Consumers' Views on Eco-Friendliness as a Dimension of a High-Tech Brand

Saari, U., Mäkinen, S. & Alinikula, P., 17 Nov 2014, *Going Green - CARE INNOVATION 2014*. SAT Austrian Society for Systems Engineering and Automation, p. 1-8 8 p. 067

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

Contact analysis included in a 3D FEA of tube splices

Perttola, H., Ronni, H. & Heinisuo, M., 2014, *Eurosteel 2014 7th European conference on steel and composite structures*.

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

Continuous-wave optical parametric oscillators for mid-infrared spectroscopy

Vainio, M., 2020, *Nonlinear Frequency Generation and Conversion: Materials and Devices XIX*. Schunemann, P. G. & Scheppler, K. L. (eds.). SPIE, 1126419. (Proceedings of SPIE - The International Society for Optical Engineering; vol. 11264).

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

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

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

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

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

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

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

Core Project Team As a Management Entity for Construction Projects

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

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

Cost- 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

Cost optimization of end-plate connections

Mela, K. & Hietaharju, L., 16 Sep 2019, *Proceedings of Nordic Steel 2019: CE/papers Special Issue*. Wilhelm Ernst und Sohn, Vol. 3. p. 349-354 6 p. (CE/papers).

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

Creating sustainable value in manufacturing operations: the role of an external service provider

Martinsuo, M., Kivilä, J. & Heikkilä, J., 2015, *22nd EurOMA Conference: Operations management for sustainable competitiveness*. Switzerland: European Operations Management Association

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

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

Crossing Boundaries for Learning – through Technology and Human Efforts

Niemi, H., Multisilta, J. & Löfström, E., 2014, *CICERO Learning Network*, University of Helsinki.

Research output: Book/Report › Book › 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

CueSense: a Wearable Proximity-Aware Display Enhancing Encounters

Jarusriboonchai, P., Olsson, T., Prabhu, V. & Väänänen-Vainio-Mattila, K., 2015, *CHI EA '15 Proceedings of the 33rd Annual ACM Conference Extended Abstracts on Human Factors in Computing Systems*. ACM, 6 p.

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

Culture-Aware Web Information System Development

Jaakkola, H. & Thalheim, B., 2015, *25th International Conference on Information Modelling and Knowledge Bases EJC 2015 June 9-12, 2015, Maribor, Slovenia*. Welzer, T., Hölbl, M., Kiyoki, Y., Thalheim, B. & Jaakkola, H. (eds.). Maribor: University of Maribor, Faculty of Electrical Engineering and Computer Science, p. 121-138 18 p.

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

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

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

Customers' conscious experience in a coffee shop

Vanharanta, H., Kantola, J. & Seikola, S., 2015, *6th International Conference on Applied Human Factors and Ergonomics (AHFE 2015) and the Affiliated Conferences, AHFE 2015*. Elsevier, p. 618-625 8 p. (Procedia Manufacturing; vol. 3).

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

Customized service solutions for project business

Martinsuo, M. & Momeni, K., Aug 2015, *23rd Nordic Academy of Management Conference 2015*. Nordic Academy of Management, 21 p.

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

Cyclic quantum walks: Photonic realization and decoherence analysis

Nejadsattari, F., Zhang, Y., Jayakody, M. N., Bouchard, F., Larocque, H., Sit, A., Fickler, R., Cohen, E. & Karimi, E., 2020, *Advanced Optical Techniques for Quantum Information, Sensing, and Metrology*. Hemmer, P. R., Migdall, A. L. & Hasan, Z. U. (eds.). SPIE, 1129503. (Proceedings of SPIE - The International Society for Optical Engineering; vol. 11295).

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

Data-Driven Approach for Analysis of Performance Indices in Mobile Work Machines

Väyrynen, T., Peltokangas, S., Anttila, E. & Vilkkö, M., 19 Jul 2015, *DATA ANALYTICS 2015, The Fourth International Conference on Data Analytics*. Klemas, T. & Chan, S. (eds.). p. 81-86 7 p.

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

Data including GROMACS input files for atomistic molecular dynamics simulations of mixed, asymmetric bilayers including molecular topologies, equilibrated structures, and force field for lipids compatible with OPLS-AA parameters

Róg, T., Orłowski, A., Llorente, A., Skotland, T., Sylvänne, T., Kauhanen, D., Ekroos, K., Sandvig, K. & Vattulainen, I., 1 Jun 2016, In : *Data in Brief*. 7, p. 1171-1174 4 p.

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

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

Decision making on sustainability in product development projects

Martinsuo, M. & Arvio, I., Jun 2015, *15th Annual Conference of EURAM European Academy of Management: EURAM 2015*. Warsaw: European Academy of Management, EURAM

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

Defining product end-of-life strategies in new product development.

Martinsuo, M., Sukanen, I. & Kivilä, J., Aug 2015, *23rd Nordic Academy of Management Conference NFF 2015- Business in society: NFF 2015*. Nordic Academy of Management, 16 p.

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

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

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

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

Mäki, A.-J., Kontunen, A., Ryyänen, T., Verho, J., Kreutzer, J., Lekkala, J. & Kallio, P., 2016, *IEEE 11th Annual International Conference on Nano/Micro Engineered and Molecular Systems (NEMS)*. IEEE, p. 125-129 5 p.

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

Detailed analysis of laser-induced breakdown spectroscopy of single particles using electrodynamic balance trapping

Järvinen, S. T., Saari, S., Keskinen, J. & Toivonen, J., 2015, *The European Conference on Lasers and Electro-Optics 2015*. Optical Society of America, p. CH_7_5

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

Detection and Assessment of Sleep-Disordered Breathing with Special Interest of Prolonged Partial Obstruction

Tenhunen, M., 4 Sep 2015, Tampere: Tampere University of Technology. 77 p. (Tampere University of Technology. Publication; vol. 1304)

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

Developing commercialization plans through stakeholder interaction: Patterns identified from Public-Private Innovation Projects

Höjbjerg Clarke, A., Rostgaard Evald, M. & Aarikka-Stenroos, L., 27 Aug 2015, *The 31st Annual IMP Conference and Doctoral Colloquium 2015, Kolding, Denmark*. Vagn Freytag, P. & Höjbjerg Clarke, A. (eds.). 20 p.

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

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

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

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 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

Development of New Kinds of Plasmonics Materials Through Swift Heavy Ion Shaping Technique

Cardin, J., Dufour, C., KHOMENKOV, V., Fafin, A., Monnet, I., Rizza, G., COULON, P-E., Slablab, A., Maily, D., Ulysse, C., Lafosse, X., Perruchas, S. & Gacoin, T., 1 Jun 2013, *7th International Conference on Materials for Advanced Technologies (ICMAT 2013), Jun 2013, Suntec, Singapore*. Singapore

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

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

Development of students' multidisciplinary collaboration skills by simulation of the design process

Salmisto, A., Keinänen, M. & Kähkönen, K., 2016, *Proceedings of the CIB World Building Congress 2016: Volume I - Creating built environments of new opportunities..* Vol. 1. p. 348-360

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

DIC measurements of the human heart during cardiopulmonary bypass surgery

Hokka, M., Mirow, N., Nagel, H., Vogt, S. & Kuokkala, V-T., 2016, *Conference Proceedings of the Society for Experimental Mechanics Series*. Springer New York LLC, Vol. 6. p. 51-59 9 p.

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

Diesel engine exhaust particle measurements using a particle size magnifier (PSM)

Kuuluvainen, H., Karjalainen, P., Saukko, E., Nousiainen, P., Karhu, T., Pirjola, L., Keskinen, J. & Rönkkö, T., 2015, *EAC 2015, European Aerosol Conference, 6-11 September, 2015, Milan, Italy*.

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

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

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

Different types of non-volatile nanoparticles in off-road diesel engine exhaust

Kuuluvainen, H., Karjalainen, P., Saukko, E., Nilsson, O., Sirviö, K., Ovaska, T., Niemi, S., Keskinen, J. & Rönkkö, T., 2015, *EAC 2015, European Aerosol Conference, 6-11 September, 2015, Milan, Italy*.

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

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

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

Digital Hydraulics on Rails – Pilot Project of Improving Reliability on Railway Rolling Stock by Utilizing Digital Valve System

Fischer, H., Laamanen, A., Iso-Heiko, A., Schäfer, O., Karvonen, M., Karhu, O., Huhtala, K., Pulkkinen, V-P. & Huttunen, A., 20 May 2015, *Proceedings of The Fourteenth Scandinavian International Conference on Fluid Power, SICFP15*. Laamanen, A. & Huhtala, K. (eds.). p. 644-654 11 p.

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

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

Digitalisaatio kunnossapidossa

Translated title of the contribution : Digitalization for maintenance operations

Martinsuo, M., Ackerman, E. & Ruusuvoori, P., 2019, *Kunnossapidon vuosikirja 2019: Elinjakson hallinta ja hyvä tuotanto-omaisuuden hallintatapa*. Kunnossapitoyhdistys ProMaint, p. 48-54 7 p.

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

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

Direct Measurement of Temporal Rogue Waves Generated by Spontaneous Modulation Instability

Narhi, M., Wetzell, 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, FTu3I.4

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

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

Vuori, V., Bor, S., Polsa, P., Käpylä, J. & Helander, N., Sep 2019, *Proceedings of the 11th International Joint Conference on Knowledge Discovery, Knowledge Engineering and Knowledge Management: 17-19 September, 2019, Vienna, Austria*. SCITEPRESS, p. 364-369 6 p. (IC3K 2019 - Proceedings of the 11th International Joint Conference on Knowledge Discovery, Knowledge Engineering and Knowledge Management; vol. 3).

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

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.

Distributed Experiments in Design Sciences, a Next Step in Design Observation Studies?

Kriesi, C., Steinert, M., Aalto-Setälä, L., Anvik, A., Balters, S., Baracchi, A., Jensen, B. M., Bjorkli, L. E., Buzzaccaro, N., Cortesi, D., D'Onghia, F., Dosi, C., Franchini, G., Fuchs, M., Gerstenberg, A., Hansen, E., Hiekkänen, K. M., Hyde, D., Ituarte, I., Kalasniemi, J., Kurikka, J., Lanza, I., Laurila, A., Lee, T. H., Lonvik, S., Mansikka-Aho, A., Nordberg, M., Oinonen, P., Pedrelli, L., Pekuri, A., Rane, E., Reime, T., Repokari, L., Ronningen, M., Rowlands, S., Sjoman, H., Slattsveen, K., Strachan, A., Stromstad, K., Suren, S., Tapio, P., Utraiainen, T., Vignoli, M., Vijaykumar, S., Welo, T. & Wulvik, A., 2015, *DS 80-2 Proceedings of the 20th International Conference on Engineering Design (ICED 15) Vol 2: Design Theory and Research Methodology Design Processes*. Weber, C., Husung, S., Cantamessa, M., Cascini, G., Marjanovic, D. & Venkataraman, S. (eds.). DESIGN SOC, 10 p. (International Conference on Engineering Design).

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

Distributors As Market Orientation Agents in Innovation Development and Commercialization.

Aarikka-Stenroos, L. & Talvitie, M., 14 Jun 2015, *The Proceedings of the XXVI ISPIM Conference 2015 Budapest, Hungary*. Denmark: International Society for Professional Innovation Management ISPIM, 17 p.

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

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

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

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

Drying-Mediated Self-Assembly of Graphene for Inkjet Printing of High-Rate Micro-supercapacitors

Sollami Delekta, S., Laurila, M.-M., Mäntysalo, M. & Li, J., 27 Jan 2020, In : *Nano-Micro Letters*. 12, 14 p., 40.

Research output: Contribution to journal › Article › 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

Dual-ID headgear UHF RFID tag with broadside and end-fire patterns based on quasi-Yagi antenna

Le, D., Ukkonen, L. & Björninen, T., 10 Dec 2019, *Proceedings of IEEE Asia-Pacific Microwave Conference*. IEEE, p. 610-612 3 p.

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

Dual-Mode Behavior in Multi-Section DFB Semiconductor Lasers with Laterally-Coupled Ridge-Waveguide Surface Gratings

Uusitalo, T., Virtanen, H., Viheriälä, J., Salmi, J. O., Aho, A. & Dumitrescu, M., Jun 2015, *The European Conference on Lasers and Electro-Optics 2015*. OSA - The Optical Society, CB_P_26

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

Durability study on high speed water hydraulic miniature on/off-valve

Paloniitty, M., 24 May 2016, *DFP16, Proceedings of the eighth workshop on digital fluid power, May 24-25, 2016, Tampere, Finland*. Tampere, p. 201-211 11 p.

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

Dynamic characteristics of three-phase Z-source-based photovoltaic inverter with asymmetric impedance network

Jokipii, J. & Suntio, T., 2015, *9th International Conference on Power Electronics ECCE Asia (ICPE-ECCE Asia)*. IEEE, p. 1976-1983 8 p.

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

Dynamics of rogue wave and soliton emergence in spontaneous modulation instability

Toenger, S., Godin, T., Billet, C., Dias, F., Erkintalo, M., Genty, G. & Dudley, J. M., 4 May 2015, *CLEO: QELS - Fundamental Science, CLEO_QELS 2015*. Optical Society of America (OSA), 2 p.

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

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

Economical utilization of high strength steel: Welded slim floor box beams

Mela, K. & Heinisuo, M., 2014, *Eurosteel 2014 7th European conference on steel and composite structures*.

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

Editorial

Kähkönen, K., Huovinen, P. & Keinänen, M., 2015, In : *Procedia Economics and Finance*. 21, p. 1-5

Research output: Contribution to journal › Editorial › Scientific

Editorial: Experiments in an Organisational Context

Christiansen, J., Birkinshaw, J., Le Masson, P. & Mäkinen, S., 2017, In : *CERN IdeaSquare Journal of Experimental Innovation*. 1, 2, 2 p.

Research output: Contribution to journal › Editorial › Scientific

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

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

Educating future coders with a holistic ICT curriculum and new learning solutions

Niemelä, P., Di Flora, C., Helevirta, M. & Isomöttönen, V., 2016, *7th International Multi-Conference on Complexity, Informatics and Cybernetics, IMCIC 2016 and 7th International Conference on Society and Information Technologies, ICSIT 2016*. IIS, Vol. 2. p. 132-136 5 p.

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

Education and Materials Joining Research methods at Tampere University of Technology

Peura, P., Vuoristo, P. & Vihinen, J., Jun 2015, In : *Hitsaustekniikka*. 65, 2-3/2015, p. 73-76 4 p.

Research output: Contribution to journal > Article > Professional

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

Effect of active damping on the output impedance of PV inverter

Aapro, A., Messo, T. & Suntio, T., 2015, *IEEE 16th Workshop on Control and Modeling for Power Electronics (COMPEL)*. 8 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

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

Tan, L. C., Nancharaiyah, 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

Effect of Inductor Saturation on the Harmonic Currents of Grid-Connected Three-Phase VSI in PV Application

Viinamäki, J., Jokipii, J. & Suntio, T., 2015, *2015 9th International Conference on Power Electronics and ECCE Asia (ICPE-ECCE Asia), 1-5 June 2015, Seoul*. IEEE, p. 1209-1216 8 p.

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

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

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

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

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

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

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

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

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

Munnukka, J., Karjaluoto, 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

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

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

E-learning of ethics, awareness, hacking and research by information security majors

Koskinen, J. A., 29 Jun 2015, *Proceedings of SEFI Annual Conferences*. European Society for Engineering Education SEFI, 8 p.

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

Electrically small UHF RFID tag antenna based on an inductively coupled resonant LC tank

Ma, S., Sydänheimo, L., Ukkonen, L. & Björninen, T., 10 Dec 2019, *Proceedings of the 2019 IEEE Asia-Pacific Microwave Conference, APMC 2019*. IEEE, 3 p.

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

Electricity Distribution Network Tariffs - Present Practices, Future Challenges and Development Possibilities

Lummi, K., Rautiainen, A., Järventausta, P., Heine, P., Lehtinen, J. & Hyvärinen, M., Jun 2016, *CIGRE Workshop 2016*. 4 p.

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

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

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

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

Electrostatic Threats in Hospital Environment

Viheriäkoski, T., Kokkonen, M., Tamminen, P., Karja, E., Hillberg, J. & Smallwood, J., 2014, *2014 36TH Electrical Overstress/Electrostatic Discharge Symposium (EOS/ESD)*. IEEE COMPUTER SOC, 9 p. (Electrical Overstress Electrostatic Discharge Symposium).

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

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

EMCCD imaging of strongly ionizing radioactive materials for safety and security

Sand, J., Ihantola, S., Peräjärvi, K., Toivonen, H., Nicholl, A., Hrnccek, E. & Toivonen, J., 12 May 2013, *2013 Conference on Lasers and Electro-Optics - International Quantum Electronics Conference*. Optical Society of America, p. JSII_P_1
Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific

Emergence of relationship triads in construction project networks

Sariola, R., 2015, *23rd Nordic Academy of Management conference, NFF, 12-14 August 2015, Copenhagen, Denmark*. Copenhagen, Denmark: Nordic Academy of Management, p. 1-13 13 p. (Nordic Academy of Management Conference).
Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Professional

Emergency Voice/Stress - level Combined Recognition for Intelligent House Applications

Drossos, K., Floros, A., Agavanakis, K., Tatlas, N-A. & Kanellopoulos, N., Apr 2012, *Audio Engineering Society Convention 132*. AES Audio Engineering Society, 11 p.
Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific

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

Emotion measurement services for knowledge workers

Vuolle, M., Salonius, H-R., Lintinen, J. & Mäkinen, J., 2015, *RESER2015: 25th Annual RESER Conference, September 10-12, 2015 Copenhagen, Denmark*. Copenhagen: RESER European Association for Research on Services, 20 p.
Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific

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

Empowerment in construction: a qualitative analysis of subcontractors' quality assurance

Viiita, 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

Enablers and barriers of inter-organizational network's formation for new market entry: case Finnish maritime industry

Suominen, A., 3 Jul 2015, *31st EGOS Colloquium, General Theme, Organizations and the Examined Life: Reason, Reflexivity and Responsibility, July 2-4, 2015 Athens, Greece*. SAGE Publications, 30 p. (Organization Studies).
Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Professional

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

Enabling cybersecurity incident reporting and coordinated handling for maritime sector

Silverajan, B. & Vistiaho, P., 1 Aug 2019, *2019 14th Asia Joint Conference on Information Security, AsiaJCIS 2019*. IEEE, p. 88-95 8 p.
Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Energiaomavaraiset anturiverkot

Translated title of the contribution: : Energy autonomous sensor networks

Keskinen, J., Vanhala, J., Mäntysalo, M. & Ruuskanen, P., 2019, In : Promaint. 2, p. 24-26 3 p.

Research output: Contribution to journal › Article › Professional

Energiatehokkuusinformaatio palvelurakennuksissa

Sorri, J., Heljo, J., Uotila, U. & Ruusala, A., 2017, *Rakennusfysiikka 2017: Uusimmat tutkimustulokset ja hyvät käytännön ratkaisut : 24.-26.10.2017, Tampere*. Tampere: Tampereen teknillinen yliopisto, Rakennustekniikka, Rakennusfysiikka, Vol. 1. p. 325-330 6 p. (Tampereen teknillinen yliopisto. Rakennustekniikka. Rakennusfysiikka.).

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

Energiatehokkuus on entistä enemmän sähkötehon hallintaa

Heljo, J., Sorri, J. & Harsia, P., 2017, *Rakennusfysiikka 2017: Uusimmat tutkimustulokset ja hyvät käytännön ratkaisut: 24.-26.10.2017, Tampere*. Vinha, J. & Kivioja, H. (eds.). Tampereen teknillinen yliopisto, Rakennustekniikka, Rakennusfysiikka, Vol. 1. p. 281-286 6 p. (Tampereen teknillinen yliopisto. Rakennustekniikka. Rakennusfysiikka.).

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

Energiatehokkuus rakennusalan ammattityövoiman täydennyskoulutuksessa

Teriö, O. & Sorri, J., 20 Oct 2015, *Rakennusfysiikka 2015. Uusimmat tutkimustulokset ja hyvät käytännön ratkaisut. 20.-22.10.2015, Tampere*. Vinha, J. & Ruuska, T. (eds.). Tampere: Tampereen teknillinen yliopisto, rakennustekniikan laitos, rakennetekniikka, p. 97-102 6 p.

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

Energy efficiency evaluation method for machine tools

Ikkala, K., Lanz, M., Kiviö, J. & Coatanéa, E., 2015, *Flexible Automation and Intelligent Manufacturing 2015*. The Choir Press, p. 58-65 8 p.

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

Engaging facts and feelings in management accounting practices

Laine, T., Suomala, P. & Saukkonen, N., 2015, *IFKAD 2015 : 10th International Forum on Knowledge Asset Dynamics, Bari, Italy, June 10th-12th*. Italy: Institute of Knowledge Asset Management & Arts for Business Institute, (International forum on knowledge asset dynamics).

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

Engelin teatterin huoneakustiikan mallintaminen

Kylliäinen, M., Niemi, H., Jäppinen, J. & Lindqvist, M., 1 Sep 2015, *Akustiikkapäivät 2015*. Akustinen seura, p. 145-150 6 p. (Akustiikkapäivät).

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

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

Enhancement mechanisms for second-harmonic generation from metal nanostructures

Kauranen, M., Czaplicki, R., Mäkitalo, J., Lehtolahti, J., Koskinen, K., Laukkanen, J. & Kuittinen, M., 2015, *PROCEEDINGS OF SPIE: Ultrafast Phenomena and Nanophotonics XX*. Vol. 9746.

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

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

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

Enhancing the supplier's third-party relationships in construction projects

Sariola, R. & Martinsuo, M., Jun 2015, *The Bartlett IRNOP 2015: International Research Network on Organizing by Projects Conference*. IRNOP, 21 p.

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

Enterprise architecture and organizational reform: a project debrief

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

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

Enterprise architecture as strategy, practice, or approach

Pekkola, S., 13 Oct 2015, *4th Innovation in Information Infrastructures (III) Workshop*. Warwick, UK: University of Warwick

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

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

Environment Interpretation for Business Continuity in a Project Supplier's Networks – Critical Factors in International Industrial Upgrades

Halinoja, M., 4 Sep 2015, Tampere: Tampere University of Technology. 237 p. (Tampere University of Technology. Publication; vol. 1313)

Research output: Book/Report › Doctoral thesis › Monograph

Erosion testing of filled and/or reinforced vinyl ester composites in water medium at elevated temperature

Siljander, S., Kiviniemi, M., Sarlin, E., Lindgren, M., Suihkonen, R. & Vuorinen, J., 2015, *Proceedings of the 20th International Conference on Composite Materials*. 10 p.

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

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

ESD Sensitivity of 01005 Chip Resistors and Capacitors

Tamminen, P., Sydänheimo, L. & Ukkonen, L., 2014, *2014 36TH Electrical Overstress/Electrostatic Discharge Symposium (EOS/ESD)*. IEEE COMPUTER SOC, 9 p. (Electrical Overstress Electrostatic Discharge Symposium).

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

Evaluating organizational commitment in support of organizational leadership

Einolander, J., 2015, *6th International Conference on Applied Human Factors and Ergonomics (AHFE 2015) and the Affiliated Conferences, AHFE 2015*. Elsevier, p. 668–673 5 p. (Procedia Manufacturing; vol. 3).

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

Evaluating the electrode measurement sensitivity of subdermal electroencephalography electrodes

Mendes, M. R., Subramaniyam, N. P. & Wendel-Mitoraj, K., 1 Jul 2015, *International IEEE/EMBS Conference on Neural Engineering, NER*. IEEE COMPUTER SOCIETY PRESS, Vol. 2015-July. p. 1092-1095 4 p.

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

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

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

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

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

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

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

Examining Innovation Barriers along Innovation Process in Multi-Industry Hygiene-Technology Network.

Mäkitalo-Keinonen, T. & Aarikka-Stenroos, L., 14 Jun 2015, *The Proceedings of the XXVI ISPIM Conference 2015 Budapest, Hungary*. Denmark: International Society for Professional Innovation Management ISPIM, 15 p.

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

Exhaust Particles and NOx Emission Factors of a Modern Heavy Duty Truck equipped with the SCR in Real-world Driving Conditions

Saari, S., Karjalainen, P., Pirjola, L., Ntziachristos, L., Keskinen, J. & Rönkkö, T., Sep 2015, *EAC 2015, European Aerosol Conference, 6-11 September, 2015, Milan, Italy*.

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

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

Experimental and numerical dataset of Microbond test using optical fibres for strain

Dsouza, R., Antunes, P., Kakkonen, M., Jokinen, J., Sarlin, E., Kallio, P. & Kanerva, M., 13 Jul 2020, In : *Data in Brief*. 31, 13 p., 106017.

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

Experimental behaviour of stainless steel cellular beam in fire

Malaska, M., Cashell, K., Alanen, M., Mela, K. & Afshan, S., 2019, *Special Issue: Proceedings of Nordic Steel 2019: Wiley Online Library*. Jesse, D. (ed.). Berlin: Wilhelm Ernst und Sohn, Vol. 3. p. 901-906 6 p. 18.02. (ce/papers).

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

Experimental demonstration of temporal ghost imaging

Ryczkowski, P., Barbier, M., Friberg, A. T., Dudley, J. M. & Genty, G., 2015, *2015 European Conference on Lasers and Electro-Optics - European Quantum Electronics Conference*. OSA, CF6_3

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

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

Experimental study of bispectrum-based encoding in radio communication system

Naumenko, V. V., Solodovnik, V. F., Totsky, A. V., Zelensky, A. A. & Astola, J. T., 25 Jun 2015, *2015 International Conference on Antenna Theory and Techniques: Dedicated to 95 Year Jubilee of Prof. Yakov S. Shifrin, ICATT 2015 - Proceedings*. The Institute of Electrical and Electronics Engineers, Inc., 3 p.

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

Experimental study on temperature distribution of sandwich panel joints in fire

Malaska, M., Alanen, M., Cabova, K., Liskova, N., Mela, K., Pajunen, S. & Wald, F., 16 Sep 2019, *Proceedings of Nordic Steel 2019: CE/papers Special Issue*. Wilhelm Ernst und Sohn, Vol. 3. p. 695-700 6 p. 11.09. (CE/papers).

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

Exploration and exploitation of sensorimotor contingencies for a cognitive embodied agent

Houbre, Q., Angleraud, A. & Pieters, R., 2020, *ICAART 2020 - Proceedings of the 12th International Conference on Agents and Artificial Intelligence*. Rocha, A., Steels, L. & van den Herik, J. (eds.). SCITEPRESS, Vol. 2. p. 546-554 9 p.

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

Exploration of different boundary conditions in the sideways falling situation in hip fracture finite element modelling

Abe, S., Ylinen, A., Narra Girish, N., Nikander, R., Hyttinen, J., Kouhia, R. & Sievänen, H., 2015, *Proceeding of the XII Finnish Mechanics Days*. Rakenteiden Mekaniikan Seura ry, p. 130-135 6 p.

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

Exploring Attitudes, Knowledge and Competencies for Security Technology: A Cross-Cultural Survey in Higher Education

Chaudhary, S., Zhao, Y., Berki, E., Valtanen, J., Li, L., Helenius, M., Mystakidis, S., Nalam, T. & Thapa, R. B., 2015, *8th International Conference on ICT, Society and Human Beings 2015*. p. 11-18 8 p.

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

Exploring customer value of Circular Economy innovations and solutions

Aarikka-Stenroos, L., Ranta, V. & Welanathanthri, M., 9 Jun 2020, *The 31st ISPIM Conference: Innovating in Times of Crisis.: 7-10 June 2020 - Virtual Event*. LUT. S. A. E. P. (ed.). International Society for Professional Innovation Management ISPIM

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

Exploring effects of ecosystem clockspeed on product performance

Mäkinen, S. J., Dedehayir, O. & Ortt, R., 11 Mar 2015, *IEEE International Conference on Industrial Engineering and Engineering Management*. IEEE COMPUTER SOCIETY PRESS, Vol. 2015-January. p. 1457-1461 5 p. 7058880

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

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

Extreme Nonlinear Signal Amplification

Närhi, M., Genty, G., Steinmeyer, G., Sand, J. & Orsila, L., 2015, *2015 European Conference on Lasers and Electro-Optics - European Quantum Electronics Conference*. OSA

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

Fabrication and characterization of broadband superluminescent diodes for 2 µm wavelength

Zia, N., Viheriälä, J., Koskinen, R., Koskinen, M., Suomalainen, S. & Guina, M., 2016, *Light-Emitting Diodes: Materials, Devices, and Applications for Solid State Lighting XX*. SPIE, 97680Q. (Proceedings of SPIE; vol. 9768).

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

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

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

Fabrication of Fluorescent Silver Nanoclusters-based Micro-Label in Polymers

Kunwar, P., Hassinen, J., Bautista, G., Ras, R. H. A. & Toivonen, J., 2015, *The European Conference on Lasers and Electro-Optics 2015*. OSA, CM_P_5. (European Conference on Lasers and Electro-Optics Europe and International Quantum Electronics Conference).

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

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

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

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

Fault Tolerance of Digital Hydraulics in High Dynamic Hydraulic System

Siivonen, L., Linjama, M., Huova, M., Försterling, H., Stamm, E. & Deubel, T., 20 May 2015, *The Fourteenth Scandinavian International Conference on Fluid Power*. 1 ed. Tampere, Finland, Vol. 1. 11 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, *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

Feasibility of electric buses in public transport

Vilppo, O. & Markkula, J., 3 May 2015, *EVS28 28th International Electric Vehicle Symposium and Exhibition*. 9 p.

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

Feasibility study of the THz band for communications between wearable electronics

Petrov, V., 3 Jun 2015, *2015 17th Conference of Open Innovations Association (FRUCT), 20-24 April 2015, Yaroslavl*. . IEEE, p. 157-162 6 p. (Conference of Open Innovations Association (FRUCT)).

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

Field Collapse Event ESD Test Method

Tamminen, P., Viheriäkoski, T., Reinvoio, T., Sydänheimo, L. & Ukkonen, L., 2014, *2014 36TH Electrical overstress/electrostatic discharge symposium (EOS/ESD)*. IEEE COMPUTER SOC, 6 p. (Electrical Overstress Electrostatic Discharge Symposium).

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

Finite temperature path-integral modeling of quantum dot cellular automata

Tiihonen, J., Schramm, A., Kylänpää, I. & Rantala, T., 29 Mar 2016.

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

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

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

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

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

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

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

Fractional Ornstein-Uhlenbeck Processes

Kaarakka, T., 6 Nov 2015, Tampere University of Technology. 102 p. (Tampere University of Technology. Publication; vol. 1338)

Research output: Book/Report > Doctoral thesis > Monograph

Framework for optimization and scheduling of a copper production plant

Suominen, O., Mörsky, V., Ritala, R. & Vilkkio, 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

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

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

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

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

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

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

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

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

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

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

Fully printed memristors for a self-sustainable recorder of mechanical energy

Vilmi, P., Nelo, M., Voutilainen, J.-V., Palosaari, J., Pöyhönen, 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

Functionalizing Surface Electrical Potential of Hydroxyapatite Coatings

Pluduma, L., Freimanis, E., Gross, K., Koivuluoto, H., Algate, K., Haynes, D. & Vuoristo, P., 2016, *11th International Conference Medical Applications of Novel Biomaterials and Nanotechnology*. Vol. 102. p. 12-17 6 p. (Advances in Science and Technology; vol. 102).

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

Functional model for organisational and safety culture

Porkka, P. L., 2016, *Chemical Engineering Transactions*. Italian Association of Chemical Engineering AIDIC, p. 907-912 6 p. (Chemical Engineering Transactions; vol. 48).

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

Future in wood? Timber construction in boosting local development.

Hynnen, 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

Gain Scheduling Full State Feedback with D-Implementation for Velocity Tracking of Hydrostatic Drive Transmission

Backas, J., Ghabcheloo, R. & Huhtala, K., 2015, *Proceedings of the Fourteenth Scandinavian International Conference on Fluid Power, SICFP15. May 20-22, 2015. Tampere, Finland*. Tampere University of Technology. Department of Intelligent Hydraulics and Automation, p. 64-75 12 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

Gamified coding: Toy robots and playful learning in early education

Heljakka, K., Ihamaki, P., Tuomi, P. & Saarikoski, P., 1 Dec 2019, *Proceedings - 6th Annual Conference on Computational Science and Computational Intelligence, CSCI 2019*. IEEE, p. 800-805 6 p. 9071010

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

Gas and particle composition and properties of photochemically aged ship plumes using chemical ionization and aerosol mass spectrometry

Psichoudaki, M., Faxon, C., Kuuluvainen, H., Thomson, E. S., Eriksson, A., Mallqvist, J., Pettersson, J., Hallquist, Å., Kristensson, A. & Hallquist, M., 2015, *EAC 2015, European Aerosol Conference, 6-11 September, 2015, Milan, Italy*.
Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Professional

Generalized hyperbolic harmonic functions in the plane

Eriksson, S-L., Orelma, H. & Vuojamo, V., 10 Mar 2015, *Proceedings of the International Conference on Numerical Analysis and Applied Mathematics 2014 (ICNAAM-2014)*. American Institute of Physics Inc., Vol. 1648. 440007
Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Generalized multivariable small-signal model of three-phase grid-connected inverter in DQ-domain

Messo, T., Aapro, A. & Suntio, T., 2015, *IEEE 16th Workshop on Control and Modeling for Power Electronics (COMPEL)*. IEEE
Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Generation of characteristic traffic emission aerosol in particulate filter collection efficiency tests

Saari, S., Karjalainen, P., Kalliohaka, T., Taipale, A. & Rönkkö, T., Oct 2015, *The 11th International Conference on Industrial Ventilation, Shanghai, China*.
Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Professional

Generation of Characteristic Traffic Emission Aerosol in Particulate Filter Collection Efficiency Tests

Saari, S., Karjalainen, P., Kalliohaka, T., Taipale, A. & Rönkkö, T., Sep 2015, *EAC 2015, European Aerosol Conference, 6-11 September, 2015, Milan, Italy*.
Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Professional

Genesis of Water supply and sanitation services in Finland

Translated title of the contribution: : Vesihuoltopalveluiden synty Suomessa: Editorial
Rajala, R. P., Juuti, P. S. & Katko, T. S., Apr 2019, In : *Ympäristöhistoria: Finnish Journal of Environmental History*. 8, 1, p. 18-28 11 p.
Research output: Contribution to journal › Article › 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

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

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

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

Ahmed, S., Mehmood, A., Sydänheimo, L., Ukkonen, L. & Björninen, T., 7 Nov 2019, *2019 IEEE International Conference on RFID Technology and Applications (RFID-TA)*. IEEE, p. 231-235 5 p.
Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Grammatical and Semantic Disambiguation of Requirements at Elicitation and Representation Stages

Christophe, F., Wang, M., Coatanea, E., Zeng, Y. & Bernard, A., 2012, *Proceedings of the ASME International Design Engineering Technical Conferences and Computers and Information in Engineering, 2011, vol 9*. AMER SOC

MECHANICAL ENGINEERS, p. 17-31 15 p.

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

Green (In,Ga,Al)P-GaP light-emitting diodes grown on high-index GaAs surfaces

Ledentsov, N. N., Shchukin, V. A., Lyytikäinen, J., Okhotnikov, O., Cherkashin, N. A., Shernyakov, Y. M., Payusov, A. S., Gordeev, N. Y., Maximov, M. V., Schlichting, S., Nippert, F. & Hoffmann, A., 2015, *Proceedings of SPIE: Light-Emitting Diodes: Materials, Devices, and Applications for Solid State Lighting XIX*. SPIE, Vol. 9383. 93830E

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

Green picosecond narrow-linewidth tapered fiber laser system

Ustimchik, V., Fedotov, A., Rissanen, J., Noronen, T., Gumenyuk, R., Chamorovskii, Y. & Filippov, V., 2020, *Fiber Lasers XVII: Technology and Systems*. Dong, L. (ed.). SPIE, p. 246 - 251 (Proceedings of SPIE; vol. 11260).

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

Growth of Urban Peripheries with Reference to Inconsistent Spatial Planning Policies: South-east Amman as case study

Amr, A. & Saad, M., Mar 2015, In : *European International Journal of Science and Technology*. 4, 3, p. 54-68 15 p., 3.

Research output: Contribution to journal › Article › Scientific

>8W GaInNAs VECSEL emitting at 615 nm

Leinonen, T., Penttinen, J. P., Korpijärvi, V. M., Kantola, E. & Guina, M., 2015, *Proceedings of SPIE: Vertical External Cavity Surface Emitting Lasers (VECSELs) V*. SPIE, Vol. 9349. 934909

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

Guidelines for Designing Human-friendly User Interfaces for Factory Floor Manufacturing Operators

Järvenpää, E. & Lanz, M., 2015, *Advances in Production Management Systems: Innovative Production Management Towards Sustainable Growth: IFIP WG 5.7 International Conference, APMS 2015, Tokyo, Japan, September 7-9, 2015, Proceedings, Part II*. Springer International Publishing, p. 531-538 8 p. (IFIP Advances in Information and Communication Technology).

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

Handling exceptional situations in a distribution network congestion management algorithm

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

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

Hard Rock (- ei Hallelujah, vaan) Tribology: Pohjoismainen kaivosteollisuuden kulumisongelmiin keskittyvä kurssi ja seminaari Tampereella

Translated title of the contribution: : Hard Rock (- not Hallelujah, but) Tribology

Valtonen, K. & Tiainen, T., 2 Sep 2015, In : *Materia*. 2015, 1, p. 30-33

Research output: Contribution to journal › Article › Professional

Harmonic and Imbalance Voltage Mitigation in Smart Grids: A DSTATCOM Based Solution

Roncero-Sanchez, P. & Acha, E., 2015, *IEEE EUROCON 2015*.

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

Heat protective properties of enclosure structure from thin-wall profiles with foamed concrete

Rybakov, V. A., Ananeva, I. A., Pichugin, E. D. & Garifullin, M., 1 Mar 2020, In : *Magazine of Civil Engineering*. 94, 2, p. 11-20 10 p.

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

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

Hiekkatekonurmipintaisten pesäpallokenttien ominaisuuksien muuttuminen ja elinkaari

Jäniskangas, T., 2015, Tampereen teknillinen yliopisto. Rakennustekniikan laitos. 45 p. (Tampereen teknillinen yliopisto. Rakennustekniikan laitos. Maa- ja pohjarakenteet. Tutkimusraportti; vol. 80)

Research output: Book/Report › Commissioned report › Professional

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

High Dynamic Range Single-Shot Spectral Measurements of Spontaneous Modulation Instability

Närhi, M., Tengvall, M., Toivonen, J., Dudley, J. M. & Genty, G., 2016, *Frontiers in Optics 2016*. Optical Society of America (OSA), FF2B.1

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

High efficiency dilute nitride solar cells: Simulations meet experiments

Tukiainen, A., Aho, A., Polojärvi, V., Ahorinta, R. & Guina, M., 2016, In : *Journal of Green Engineering*. 5, 3-4, p. 113-132 20 p., 8.

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

High-efficiency yellow VECSEL with 20 W output power

Kantola, E., Leinonen, T., Ranta, S., Tavast, M. & Guina, M., 2013, *Optics Days 2013, Helsinki, Finland: Oral presentation in Optics Days 2013, Helsinki, Finland*.

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

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

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

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

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

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

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

High-power 1550 nm tapered DBR lasers fabricated using soft UV-nanoimprint lithography

Viheriälä, J., Aho, A. T., Mäkelä, J., Salmi, J., Virtanen, H., Leinonen, T., Dumitrescu, M. & Guina, M., 2016, *High-Power Diode Laser Technology and Applications XIV*. SPIE, 7 p. 97330Q. (SPIE Conference Proceedings; vol. 9733).

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

High power GalnNAs VECSEL emitting at 1230/615 nm

Penttinen, J-P., Leinonen, T., Korpijärvi, V-M., Kantola, E. & Guina, M., 22 Jun 2015, *The European Conference on Lasers and Electro-Optics 2015*. OSA

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

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

Fedotov, A., Noronen, T., Rissanen, J., Gumenyuk, R., Petrov, A., Chamorovskii, Y., Golant, K., Odnoblyudov, M. & Filippov, V., 2018, *Proceedings of SPIE : Fiber Lasers and Glass Photonics: Materials through Applications*. Taccheo, S.,

Mackenzie, JI. & Ferrari, M. (eds.). SPIE-INT SOC OPTICAL ENGINEERING, Vol. 10683. 7 p. (Proceedings of SPIE; vol. 10683).

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

High-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

High repetition rate 1.34 μm Nd:YVO₄ microchip laser Q-switched with GaInNAs SESAM

Nikkinen, J., Korpijärvi, V-M., Leino, I., Härkönen, A. & Guina, M., 22 Jun 2015, *The European Conference on Lasers and Electro-Optics 2015*. OSA, CA_5b_1

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

High-temperature sliding wear behaviour of thermally sprayed Cr₃C₂-based coatings

Matikainen, V., Bolelli, G., Koivuluoto, H., Sassatelli, P., Lusvarghi, L. & Vuoristo, P., 2016, *Proceedings of The 17th Nordic Symposium on Tribology - NORDTRIB 2016*. 10 p.

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

High Temperature Tension HSB Device Based on Direct Electrical Heating

Hokka, M., Östman, K., Rämö, J. & Kuokkala, V. T., 2015, *Dynamic Behavior of Materials, Volume 1: Proceedings of the 2014 Annual Conference on Experimental and Applied Mechanics*. Song, B., Casem, D. & Kimberley, J. (eds.). Springer, Vol. 65. p. 227-233 7 p. (Conference Proceedings of the Society for Experimental Mechanics Series).

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

HKPro3 - Valtion tukemien homekorjaushankkeiden arviointi: Jatkotutkimus

Marttila, T., Annala, P., Kero, P., Suonketo, J., Heino, S. & Pentti, M., 2015, Tampereen teknillinen yliopisto, rakennustekniikan laitos, rakennustekniikka. 68 p. (Tampereen teknillinen yliopisto. Rakennustekniikan laitos. Rakennetekniikka; Tutkimusraportti; vol. 163)

Research output: Book/Report › Commissioned report › Professional

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

Hometalolle suoritettavat toimenpiteet ja niiden valinta - case-esimerkki

Kankkunen, T. & Kero, P., 20 Oct 2015, *Rakennusfysiikka 2015. Uusimmat tutkimustulokset ja hyvät käytännön ratkaisut. 20.-22.10.2015, Tampere*. Vinha, J. & Ruuska, T. (eds.). Tampere: Tampereen teknillinen yliopisto, rakennustekniikan laitos, rakennetekniikka, p. 265-270 6 p.

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

How is it sustainable? Identifying key indicators for sustainable educational design

Sandström, N., Hytti, V., Nenonen, S. & Lonka, K., 2016, *10th INTED 2016 Conference Proceedings: 7-9 March, 2016, Valencia, Spain*. Gómez Chova, L., López Martínez, A. & Candel Torres, I. (eds.). p. 4217-4219 3 p. (INTED proceedings).

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

How mono-valent cations bend peptide turns and a first-principles database of amino acids and dipeptides

Baldauf, C., Ropo, M., Blum, V. & Scheffler, M., 6 Oct 2014, *International Conference of Computational Methods in Sciences and Engineering 2014 (ICCMSE 2014)*. Simos, T. E., Kalogiratou, Z. & Monovasilis, T. (eds.). American Institute of Physics Inc., Vol. 1618. p. 119-120 2 p. (AIP Conference Proceedings; vol. 1618).

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

How to co-learn in campus.

Salmisto, A., 2015, *Oppiva kampus - How to co-create campus?*. Nenonen, S., Kärnä, S., Junnonen, J-M., Tähtinen, S. & Sandström, N. (eds.). Tampere: Suomen Yliopistokiinteistöt Oy, p. 320-337 18 p.

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

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

How to support managers' commitment to safety management and leadership in organizations: good practices from the managers' viewpoint

Tappura, S., Nenonen, N. & Kivistö-Rahnasto, J., Sep 2015, *WOS 8th international conference - Book of Abstracts .*

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

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

Hydraulic Hybrid Actuator: Theoretical Aspects and Solution Alternatives

Linjama, M., Huova, M., Pietola, M., Juhala, J. & Huhtala, K., May 2015, *Proceedings of the Fourteenth Scandinavian International Conference on Fluid Power*. Laamanen, A., Huhtala, K. & Uusi-Heikkilä, J. (eds.). Tampere: Tampere University of Technology, 11 p.

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

Hydrodynamic Classification of Natural Flows Using an Artificial Lateral Line and Frequency Domain Features

Tuhtan, J. A., Strokina, N., Toming, G., Muhammad, N., Kruusmaa, M. & Kämäräinen, J-K., 2015, *36th IAHR World Congress*.

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

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

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

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

Identification of fundamental requirements for ideal metamodeling framework in additive manufacturing

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

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

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

Identifying critical technology actors in waste flow management

Peltola, T. & Mäkinen, S., 1 Aug 2015, *PICMET'15 Conference, Management of the Technology Age: August 2-6, 2015, Hilton Portland and Executive Tower, Portland, Oregon, USA*. United States: Portland International Center for Management of Engineering and Technology, p. 2027-2031 5 p.

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

Identifying the potential of performance measurement in supporting strategic purchasing and supply chain management

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

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

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

Translated title of the contribution: : Ideas to reform the content of spatial plans: Developing the designations and regulations related to plans

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

Research output: Book/Report › Commissioned report › Professional

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 21th Century: Resilience, Creativity and Co-creation*. Vol. 12. p. 575-584

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

Ilmaääneneristysluku sekä standardisoitu ja normalisoitu äänitasoeroluku huoneistojen välisen ilmaääneneristävyyden kuvaajina

Kylliäinen, M., Takala, J. & Hongisto, V., 1 Sep 2015, *Akustiikkapäivät 2015*. Kuopio: Akustinen seura, p. 158-161 4 p. (Akustiikkapäivät).

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

Ilmastonmuutoksen vaikutus betonijulkisivujen vaurioitumisen etenemiseen

Pakkala, T., Lemberg, A.-M., Köliö, A. & Lahdensivu, J., Oct 2015, *Rakennusfysiikka 2015: Uusimmat tutkimustulokset ja hyvät käytännön ratkaisut, 20.-22.10.2015, Tampere*. Vinha, J. & Ruuska, T. (eds.). Tampere: Tampereen teknillinen yliopisto, rakennustekniikan laitos, rakennetekniikka, p. 203-210 8 p.

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

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

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

Impact of anatomical variability on the wireless power transfer to intra-abdominal implants

Ahmed, S., Sydänheimo, L., Ukkonen, L. & Björninen, T., 10 Dec 2019, *Proceedings of the 2019 IEEE Asia-Pacific Microwave Conference, APMC 2019*. IEEE, p. 578-580 3 p.

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

Impact of Axial Profile of the Gain Medium on the Mode Instability in Lasers: Regular Versus Tapered Fibers

Filippov, V., Ustimchik, V. E., Chamorovskiy, Y., Golant, K., Vorotynskii, A. & Okhotnikov, O., 24 Jun 2015, *The European Conference on Lasers and Electro-Optics 2015*. OSA, CJ-10.5

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

Impedanssipneumografia pienten lasten alahengitytiesoireiden selvittelyssä

Seppä, V-P., Pelkonen, A. S., Kotaniemi-Syrjänen, A., Viik, J., Mäkelä, M. J. & Malmberg, P., 2015, *Allergiatutkimussäätiön vuosikirja 2015*. (Allergiakoulu).

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

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

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

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

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

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

Improving project control by combining earned value analysis and automatic data collection

Vuorinen, L. & Sariola, R., 2015, *International Research Network in Organizing by Projects Conference 2015: IRNOP*. London, U.K., p. 1 17 p.

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

Improving Recovery Boiler Availability through Understanding Fume Behavior

Leppänen, A. & Välimäki, E., 2015, *TAPPI PEERS Conference Proceedings, October 25-28, 2015*. Atlanta, Georgia: TAPPI, 11 p.

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

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

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

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

Incoherent Broadband Cavity Enhanced Absorption Spectroscopy Using a Supercontinuum Source in the Mid-IR
Amiot, C. G., Aalto, A., Toivonen, J. & Genty, G., 2015, *Laser Science 2015: Proceedings Frontiers in Optics 2015*. 2 p. JTU4A-80

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

Incoherent Broadband Cavity Enhanced Absorption Spectroscopy with a Supercontinuum Source
Amiot, C., Aalto, A., Genty, G. & Toivonen, J., 2015, *2015 European Conference on Lasers and Electro-Optics - European Quantum Electronics Conference: Proceedings*. Optical Society of America, p. CH_P_16

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

Increasing Employee Involvement in Socially Sustainable Manufacturing: Two Methods for Capturing Employees' Tacit Knowledge to Improve Manufacturing Processes

Kopra, M.-J., Halonen, N., Järvenpää, E. & Lanz, M., 2015, *Advances in Production Management Systems: Innovative Production Management Towards Sustainable Growth: IFIP WG 5.7 International Conference, APMS 2015, Tokyo, Japan, September 7-9, 2015, Proceedings, Part II*. Springer International Publishing, p. 539-546 8 p. (IFIP Advances in Information and Communication Technology).

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

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

Indoor Localisation using Aroma Fingerprints: A First Sniff

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

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

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

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

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

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

Research output: Book/Report › Commissioned report › Professional

Infant respiration and heart rate monitoring with EMFi sensor

Rajala, S. & Lekkala, J., 2015, *IMEKO XXI World Congress, Proceedings, August 30 - September 4, 2015, Prague, Czech Republic*. Holub, J. (ed.). 5 p.

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

Infinitesimals and Pavelka logic

Turunen, E. & Navara, M., 2015, *PROCEEDINGS OF THE 2015 CONFERENCE OF THE INTERNATIONAL FUZZY SYSTEMS ASSOCIATION AND THE EUROPEAN SOCIETY FOR FUZZY LOGIC AND TECHNOLOGY*. Alonso, JM., Bustince, H. & Reformat, M. (eds.). PARIS: Atlantis Press, p. 1027-1033 7 p. (Advances in Intelligent Systems Research; vol. 89).

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

Influence of environmental conditions on EMF levels in a span of overhead transmission lines

Okun, O., Kravchenko, Y. & Korpinen, L., 2016, In : *Progress in Electromagnetics Research C*. 63, p. 163-171 9 p.

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

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

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

Initiation processes and initiation contributors illustrated by Norwegian-South Korean business relationships

Aarikka-Stenroos, L., Aaboen, L. & Rolfsen, A., 27 Aug 2015, *The 31st IMP Conference 2015, Kolding, Denmark.. Vagn Freytag, P. & Højbjerg Clarke, A. (eds.)*. Kolding, Denmark, 28 p.

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

Inkjet printed metallic micropillars for bare die flip-chip bonding

Khorrarnedel, 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

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

Institutionalizing a service innovation in complex networks: The case of developing and diffusing electronic prescription in Finland.

Jaakkola, E., Aarikka-Stenroos, L. & Salmivalli, L., 27 Aug 2015, *The 31st Annual IMP Conference and Doctoral Colloquium 2015, Kolding, Denmark.. Vagn Freytag, P. & Højbjerg Clarke, A. (eds.)*. 12 p.

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

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

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

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.

Tampere: Tampere University of Technology. Department of Civil Engineering, p. 260-271 11 p.

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

Integrating III-V, Si, and polymer waveguides for optical interconnects: RAPIDO

Aalto, T., Harjanne, M., Offrein, B. J., Caër, C., Neumeyr, C., Malacarne, A., Guina, M., Sheehan, R. N., Peters, F. H. & Melanen, P., 2016, *Optical Interconnects XVI*. SPIE, 97530D. (Proceedings of SPIE; vol. 9753).

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

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

Integration of evaluation and simulation methods for virtual prototypes

Christophe, F., Mokammel, F., Coatanea, E. & Bakhouya, M., 2013, *Proceedings of the 15th International Conference on Engineering and Product Design Education: Design Education - Growing Our Future, EPDE 2013*. p. 623-628 6 p.

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

Intensity Interferometry of Supercontinuum Light

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

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

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

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

International Workshop on MicroFactories (IWMF 2012): 17th-20th June 2012 Tampere Hall Tampere, Finland

Tuokko, R. (ed.), Lanz, M. (ed.) & Luostarinen, P. (ed.), 2012, Tampere University of Technology. Department of Production Engineering. 186 p.

Research output: Book/Report › Commissioned report › Professional

Internet-of-things disrupting business ecosystems: A case in home automation

Mäkinen, S. J., 11 Mar 2015, *IEEM 2014: 2014 IEEE International Conference on Industrial Engineering and Engineering Management*. IEEE COMPUTER SOCIETY PRESS, p. 1467-1470 4 p.

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

Internet of Things, Smart Spaces, and Next Generation Networks and Systems: 15th International Conference, NEW2AN 2015, and 8th Conference, ruSMART 2015, St. Petersburg, Russia, August 26-28, 2015, Proceedings

Balandin, S. (ed.), Andreev, S. (ed.) & Koucheryavy, Y. (ed.), 2015, Springer International Publishing. (Lecture Notes in Computer Science; vol. 9247)

Research output: Book/Report › Anthology › 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

Interplay between offering, provider and customer in product-service system design

Ritola, T. & Coatanea, E., 2013, *Proceedings of the 19th International Conference on Engineering Design (ICED13), Design for Harmonies, Vol.4: Product, Service and Systems Design*, Seoul, Korea, 19-22.08.2013. Lindemann, U., Venkataraman, S., Kim, YS., Lee, SW., DeWeck, O. & Hong, YS. (eds.). DESIGN SOC, 10 p. (International Conference on Engineering Design).

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

Investigating Auditory Human-Machine Interaction: Analysis and Classification of Sounds Commonly Used by Consumer Devices

Drossos, K., Kotsakis, R., Pappas, P., Kalliris, G. & Floros, A., May 2013, *Audio Engineering Society Convention 134*. AES Audio Engineering Society, 9 p. 8812

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

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

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

IoT-CryptoDiet: Implementing a lightweight cryptographic library based on ecdh and ecdsa for the development of secure and privacy-preserving protocols in contiki-ng

Frimpong, E. & Michalas, A., 2020, *IoTBDs 2020 - Proceedings of the 5th International Conference on Internet of Things, Big Data and Security*. Wills, G., Kacsuk, P. & Chang, V. (eds.). SCITEPRESS, p. 101-111 11 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

Jitter suppression in passive harmonic mode-locking fiber ring laser

Korobko, D. A., Zolotovskii, I. O., Gumenyuk, R. V. & Fotiadi, A. A., 2020, *Nonlinear Optics and its Applications 2020*. Broderick, N. G. R., Dudley, J. M. & Peacock, A. C. (eds.). SPIE, p. 238 - 247 (Proceedings of SPIE; vol. 11358).

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

Joustavat asuinympäristöt: 10 visiota aikaa kestäväään kaupunkiasumiseen

Kotilainen, S. (ed.), Hedman, M. (ed.) & Heikkinen, J. (ed.), 31 Mar 2015, Tampere: Tampereen teknillinen yliopisto. Arkkitehtuurin laitos. 268 p. (Housing Design)

Research output: Book/Report > Anthology > Professional