

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

Automatization and stress analysis data of CoCr laser weld fatigue tests

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

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

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

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

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

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

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

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

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

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

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

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

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

Enabling cybersecurity incident reporting and coordinated handling for maritime sector

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

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

Visibility-Aware Part Coding for Vehicle Viewing Angle Estimation

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

Profile extraction and deep autoencoder feature extraction for elevator fault detection

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

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

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

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

Actors' agency in the routines of innovation project portfolio management

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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

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

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

Normalization of deviance in the construction industry, a managerial perspective

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

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

The circular economy of projects

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

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

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

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

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

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

High-Q resonance train in a plasmonic metasurface

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

Optical Frequency Comb Photoacoustic Spectroscopy

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

A Semantic Meta-Model Repository for Lightweight M2M

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

Muovipäälysteisten lattioiden vaurioituminen kosteuden vaikutuksesta

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

Large mode area double clad ytterbium tapered fiber with circular birefringency

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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

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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

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

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

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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

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

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

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

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

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

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

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Business intelligence process model revisited

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Challenges in developing data-based value creation

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

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

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

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

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

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

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

Random lasing control with optical spatial solitons in nematic liquid crystals

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

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

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

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

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

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

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

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Research output: Book/Report › Commissioned report › Professional

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

Tutkimuskatsaus: Uusia menetelmiä haavan paranemisen arviointiin ja seurantaan

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

The Effects of Product Line Length on Firm Performance

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Nanocellulose as a Piezoelectric Material

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

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

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

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

Koponen, P., Hanninen, S., Mutanen, A., Koskela, J., Rautiainen, A., Järventausta, P., Niska, H., Kolehmainen, M. & Koivisto, H., 27 Jun 2018, *2018 IEEE International Energy Conference, ENERGYCON 2018*. IEEE, p. 1-6 6 p.

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

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

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

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

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

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

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

Bolla, P. & Lohan, E.-S., 5 Jun 2018, *2018 IEEE/ION Position, Location and Navigation Symposium, PLANS 2018*. IEEE, p. 72-80 9 p.

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

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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

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

Intensity Interferometry of Supercontinuum Light

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

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

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

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

Requirements from industrial internet for innovations in advanced industrial services

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

Toward Manageable Data Sources

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

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

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

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

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

Finnish Round Robin Test on Airborne Sound Insulation

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

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

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

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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.

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

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

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

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

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

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

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

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

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

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Action recognition using the 3D dense microblock difference

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

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

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

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

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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

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

Architectural patterns for microservices: A systematic mapping study

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

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

Automated pile transfer work cycles with a robotic wheel loader

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

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

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

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

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

Development of efficient electrically pumped nanolasers based on InAlGaAs tunnel junction

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

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

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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

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

Effects of adiabatic heating estimated from tensile tests with continuous heating

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

Electro-optic steering of random laser emission in liquid crystals

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

Elementary math to close the digital skills gap

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

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

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

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

Evaluating the contrast of planar periodic patterns on paper

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

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

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

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

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

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

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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

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

Gibbs Dyadic Differentiation on Groups - Evolution of the Concept

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

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

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

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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

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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

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

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

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

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

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

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

In vitro characterization of arylhydrazones of active methylene derivatives

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

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

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

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

Kehittämistutkimus: vuorovaikutteisten Matlab-opetusohjelmien vaikutus minäpystyvyyteen ja oppimistuloksiin yliopistomatematiikassa

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

Keyframe-based video summarization with human in the loop

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

Laser Scanning Tasks of Building Refurbishment Project

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

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

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

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

Model for efficient development of security audit criteria

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

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

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

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

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

Proceedings of the 1st Transdisciplinary Workplace Research Conference

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

Projektiyöskentelyn kehittäminen yläkoulun matematiikan opetuksessa

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

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

Real-time human pose estimation with convolutional neural networks

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

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

Real-time measurements of nonlinear instabilities in optical fibers

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

Resonant harmonic generation in AlGaAs nanoantennas using cylindrical vector beams

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

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

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

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

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

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

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

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

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

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

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

Yliopistomatematiikan sähköisten tehtävien ja matemaattisen ajattelun kehittäminen

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

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

基于相位旋转的SCMA码本优化方法

Translated title of the contribution: : SCMA codebook optimization method based on phase rotation

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

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

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

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

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

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

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

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

Sata vuotta vesihuoltoa Suomessa

Translated title of the contribution: : One hundred years of water services in Finland

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

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

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

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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

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

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Viherialä, 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).

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

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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.

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

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

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

Institutional development is the key for sustainable water services in the built environment

Katko, T. S. & Hukka, J. J., 2016, *Proceedings of the CIB World Building Congress 2016: Volume IV - Understanding impacts and functioning of different solutions*. Nenonen, S. & Junnonen, J-M. (eds.). Tampere: Tampere University of Technology. Department of Civil Engineering, p. 419-430 12 p.

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

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

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

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

Leadership instead of grading - The new goals of assessment

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

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

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

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

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

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

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

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

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Need of Services and Understanding of Service Providers in Water and Sanitation: A Case of Ethiopia

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

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

Probabilistic Framework for Modelling the Evolution of Geomorphic Features in 10,000-Year Time Scale: The Eurajoki River Case

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

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

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

Profitability of different li-ion batteries as back-up power in LVDC distribution network

Markkula, J., Vilppo, O., Järventausta, P., Hakala, T. & Lähdeaho, T., 2016, *CIREN Workshop 2016*.

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

Quantitative Estimation of Long-living Fluorescent Molecules from Temporal Fluorescence Intensity Data Corrupted by Nonzero-mean Noise

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

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

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

Reinforcement Corrosion Modelling in Renovation Strategy for Concrete Facades

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

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

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Roadmap towards the vision of the future power system and electricity market

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

Role of Power and Sense Making in the Briefing of a Small Renovation Project

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

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

Short range HF radio channel measurements: Search for one path channels

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

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

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

Site-controlled InAs Quantum Dots for Plasmonics

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

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

Spatial borders and affordances of a temporary school building – Enhancing the school engagement and learning experience

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

STACK assignments in university mathematics education

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

Surrogate modeling for initial rotational stiffness of welded tubular joints

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

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

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

The role of the purchasing function in non-financial value creation

Jääskeläinen, A., Thitz, O. & Heikkilä, J., 2016, *25th Proceedings of IPSERA 2016 conference, : 20-23.3.2016, Dortmund, Germany*.
Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Professional

The Workplace for Researchers – Enhancing Concentration and Face-to-face Interaction

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

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

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

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

Visual narratives in the value chain of new management accounting knowledge

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Обзор параметрических методов позиционирования на основе концепции отпечатка пальца

Translated title of the contribution: : A Survey of Parametric Fingerprint-Positioning Methods

Müller, P., Raitoharju, M., Ali-Löytty, S., Wirola, L. & Piche, R., 2016, In : *Giroskopiya I Navigatsiya*. 24, 1, p. 3-35

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

Turvallisuuden johtajat - Esimiesten johtajuus, osaaminen ja sitoutuminen

Translated title of the contribution: : Leaders of safety - managers' leadership, skills and commitment

Tappura, S., Hyytinen, T., Kivistö-Rahnasto, J., Nenonen, N. & Vasara, J., 30 Dec 2015, Tampere: Tampereen teknillinen yliopisto; Tampereen yliopisto. 144 p.

Research output: Book/Report › Commissioned report › Professional

Bispectrum-based demodulation technique using triple-channel heterodyning of triplet-signal

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

Preparation and antimicrobial characterization of silver-containing packaging materials for meat

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

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