

### **Neural networks, cell cultures and some older work on data analysis.**

Acimovic, J., 15 Jun 2009.

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

### **IEEE 802.11ac MIMO Transceiver Baseband Processing on a VLIW Processor**

Aghababaeetafreschi, M., Lehtonen, L. K., Levanen, T., Valkama, M. & Takala, J., 2016, In : Journal of Signal Processing Systems.

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

### **Model for evaluating additive manufacturing feasibility in end-use production**

Ahtiluoto, M., Ellman, A. & Coatanea, E., 2019, In : Proceedings of the International Conference on Engineering Design, ICED. 1, 1, p. 799-808 10 p.

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

### **ALMARVI System Solution for Image and Video Processing in Healthcare, Surveillance and Mobile Applications**

Al-Ars, Z., van der Vlugt, S., Jääskeläinen, P. & van der Linden, F., Jan 2019, In : Journal of Signal Processing Systems. 91, 1, p. 1-7

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

### **Structural influence of gene networks on their inference: Analysis of C3NET**

Altay, G. & Emmert-Streib, F., 22 Jun 2011, In : Biology Direct. 6, 31.

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

### **Inferring the conservative causal core of gene regulatory networks**

Altay, G. & Emmert-Streib, F., 28 Sep 2010, In : BMC Systems Biology. 4, 132.

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

### **Performance evaluation of a flow control algorithm for network-on-chip**

Bakhouya, M., Chariete, A., Gaber, J., Wack, M., Niar, S. & Coatanea, E., 2012, *Proceedings of the 2012 International Conference on High Performance Computing and Simulation, HPCS 2012*. p. 281-287 7 p. 6266925

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

### **Data Flow Algorithms for Processors with Vector Extensions: Handling Actors With Internal State**

Barford, L., Bhattacharyya, S. S. & Liu, Y., 2017, In : Journal of Signal Processing Systems. 87, 1, p. 21-31

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

### **Hermitian one-particle density matrix through a semiclassical gradient expansion**

Bencheikh, K. & Räsänen, E., 9 Dec 2015, In : Journal of Physics A: Mathematical and Theoretical. 49, 1, 015205.

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

### **Overview of the MPEG reconfigurable video coding framework**

Bhattacharyya, S. S., Eker, J., Janneck, J. W., Lucarz, C., Mattavelli, M. & Raulet, M., May 2011, In : Journal of Signal Processing Systems. 63, 2, p. 251-263 13 p.

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

### **A Hybrid Task Graph Scheduler for High Performance Image Processing Workflows**

Blattner, T., Keyrouz, W., Bhattacharyya, S. S., Halem, M. & Brady, M., 2017, In : Journal of Signal Processing Systems. 89, 3, p. 457-467 11 p.

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

### **Conformational properties of complex polymers: Rosette versus star-like structures**

Blavatska, V. & Metzler, R., 7 Apr 2015, In : Journal of Physics A: Mathematical and Theoretical. 48, 13, 135001.

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

### **Bringing stimulated ideation in a web environment: Students' evaluations of a basic software release**

Borgianni, Y., Lenarduzzi, V., Rotini, F. & Taibi, D., 2018, *ICDC 2018 - 5th International Conference on Design Creativity, Conference Proceedings*. Dekoninck, E., Wodehouse, A., Snider, C., Georgiev, G. & Cascini, G. (eds.). DESIGN SOCIETY, (Proceedings of the International Conference on Engineering Design, ICED).

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

### **Towards generic embedded multiprocessing for RVC-CAL dataflow programs**

Boutellier, J. & Silvén, O., Nov 2013, In : *Journal of Signal Processing Systems*. 73, 2, p. 137-142 6 p.

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

### **Automatic hierarchical discovery of quasi-static schedules of RVC-CAL dataflow programs**

Boutellier, J., Raulet, M. & Silvén, O., 2013, In : *Journal of Signal Processing Systems*. 71, 1, p. 35-40 6 p.

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

### **Quasi-static scheduling of CAL actor networks for reconfigurable video coding**

Boutellier, J., Lucarz, C., Lafond, S., Gomez, V. M. & Mattavelli, M., May 2011, In : *Journal of Signal Processing Systems*. 63, 2, p. 191-202 12 p.

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

### **Design Flow for GPU and Multicore Execution of Dynamic Dataflow Programs**

Boutellier, J. & Nyländén, T., 2017, In : *Journal of Signal Processing Systems*. 89, 3, p. 469–478 10 p.

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

### **An image generator platform to improve cell tracking algorithms simulation of objects of various morphologies, kinetics and clustering**

Canelas, P., Martins, L., Mora, A., S. Ribeiro, A. & Fonseca, J., 2016, *SIMULTECH 2016 - Proceedings of the 6th International Conference on Simulation and Modeling Methodologies, Technologies and Applications*. SCITEPRESS, p. 44-55 12 p.

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

### **Instrumentation-Driven Validation of Dataflow Applications**

Chukhman, I., Jiao, Y., Salem, H. B. & Bhattacharyya, S. S., 2016, In : *Journal of Signal Processing Systems*. 84, 3, p. 383–397

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

### **A framework for building behavioral models for design-stage failure identification using dimensional analysis**

Coatanéa, E., Ritola, T., Tumer, I. Y. & Jensen, D., 2010, *Proceedings of the ASME Design Engineering Technical Conference*. AMER SOC MECHANICAL ENGINEERS, Vol. 5. p. 591-601 11 p.

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

### **Measurement theory and dimensional analysis: Methodological impact on the comparison and evaluation process**

Coatanéa, E., Yannou, B., Honkala, S., Lajunen, A., Saarelainen, T. & Makkonen, P., 2008, *19th International Conference on Design Theory and Methodology and 1st International Conference on Micro and Nano Systems, presented at - 2007 ASME International Design Engineering Technical Conferences and Computers and Information in Engineering Conference, IDETC/CIE2007*. AMER SOC MECHANICAL ENGINEERS, p. 173-182 10 p.

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

### **Graph based representation and analyses for conceptual stages**

Coatanéa, E., Nonsiri, S., Christophe, F. & Mokammel, F., 2014, *34th Computers and Information in Engineering Conference*. The American Society of Mechanical Engineers ASME, Vol. 1A.

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

### **Knowledge-based artificial neural network (KB-ANN) in engineering: Associating functional architecture modeling, dimensional analysis and causal graphs to produce optimized topologies for KB-ANNs**

Coatanéa, E., Wu, D., Tsarkov, V., Gary Wang, G., Modi, S. & Jafarian, H., 2018, *38th Computers and Information in Engineering Conference*. The American Society of Mechanical Engineers ASME, Vol. 1B-2018. 12 p.

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

**Properties of graph distance measures by means of discrete inequalities**

Dehmer, M., Chen, Z., Emmert-Streib, F., Shi, Y., Tripathi, S., Musa, A. & Mowshowitz, A., 1 Jul 2018, In : Applied Mathematical Modelling. 59, p. 739-749 11 p.

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

**Organizational structure and the periphery of the gene regulatory network in B-cell lymphoma.**

de Matos Simoes, R., Tripathi, S. & Emmert-Streib, F., 14 May 2012, In : BMC Systems Biology. 6, 38.

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

**PiMM: Parameterized and interfaced dataflow meta-model for MPSoCs runtime reconfiguration**

Desnos, K., Pelcat, M., Nezan, J. F., Bhattacharyya, S. S. & Aridhi, S., 2013, *Proceedings - 2013 International Conference on Embedded Computer Systems: Architectures, Modeling and Simulation, IC-SAMOS 2013*. IEEE COMPUTER SOCIETY PRESS, p. 41-48 8 p. 6621104

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

**Iterative and Participative Axiomatic Design Process in complex mechanical assemblies: case study on fusion engineering**

Di Gironimo, G., Lanzotti, A., Marzullo, D., Esposito, G., Carfora, D. & Siuko, M., 22 Mar 2015, In : International Journal on Interactive Design and Manufacturing. 9, 4, p. 325-338 14 p.

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

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

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

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

**Hysteresis and eddy-current losses in electrical steel utilising edge degradation due to cutting effects**

Elfgen, S., Rasilo, P. & Hameyer, K., 2020, In : International Journal of Numerical Modelling: Electronic Networks, Devices and Fields. 10 p.

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

**Guest Editorial: Implementation Issues in System-on-Chip**

Ellervee, P. & Nurmi, J., 1 Jun 2017, In : Journal of Signal Processing Systems. 87, 3, p. 269-270 2 p.

Research output: Contribution to journal > Editorial > Scientific

**Harnessing the complexity of gene expression data from cancer: From single gene to structural pathway methods**

Emmert-Streib, F., Tripathi, S. & Matos Simoes, R. D., 10 Dec 2012, In : Biology Direct. 7, 44.

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

**Pathway analysis of expression data: Deciphering functional building blocks of complex diseases**

Emmert-Streib, F. & Glazko, G. V., May 2011, In : PLoS Computational Biology. 7, 5, e1002053.

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

**Networks for systems biology: Conceptual connection of data and function**

Emmert-Streib, F. & Dehmer, M., May 2011, In : IET Systems Biology. 5, 3, p. 185-207 23 p.

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

**Local network-based measures to assess the inferability of different regulatory networks**

Emmert-Streib, F. & Altay, G., Jul 2010, In : IET Systems Biology. 4, 4, p. 277-288 12 p., ISBEAT000004000004000277000001.

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

**Hierarchical coordination of periodic genes in the cell cycle of *Saccharomyces cerevisiae***

Emmert-Streib, F. & Dehmer, M., 20 Jul 2009, In : BMC Systems Biology. 3, 76.

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

**Information processing in the transcriptional regulatory network of yeast: Functional robustness**

Emmert-Streib, F. & Dehmer, M., 19 Mar 2009, In : BMC Systems Biology. 3, 35.

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

**Algorithmic computation of knot polynomials of secondary structure elements of proteins**

Emmert-Streib, F., 1 Oct 2006, In : Journal of Computational Biology. 13, 8, p. 1503-1512 10 p.

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

**Concerted regulation of npc2 binding to endosomal/lysosomal membranes by bis(monoacylglycero)phosphate and sphingomyelin**

Enkavi, G., Mikkolainen, H., GÜngör, B., Ikonen, E. & Vattulainen, I., 1 Oct 2017, In : PLoS Computational Biology. 13, 10, e1005831.

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

**Sir distribution in D2D environment with non-stationary mobility of users**

Fedorov, S., Orlov, Y., Samuylov, A., Moltchanov, D., Gaidamaka, Y., Samouylov, K. & Shorgin, S., 2017, *Proceedings - 31st European Conference on Modelling and Simulation, ECMS 2017*. EUROPEAN COUNCIL FOR MODELLING AND SIMULATION, p. 720-725 6 p.

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

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

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

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

**Dynamics of a buck converter with a constant power load**

Grigore, V., Hatonen, J., Kyra, J. & Suntio, T., 1 Jan 1998, *PESC 1998 - 29th Annual IEEE Power Electronics Specialists Conference*. Institute of Electrical and Electronics Engineers Inc., p. 72-78 7 p. 701881. (PESC Record - IEEE Annual Power Electronics Specialists Conference; vol. 1).

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

**Exploiting statically schedulable regions in dataflow programs**

Gu, R., Janneck, J. W., Raulet, M. & Bhattacharyya, S. S., Apr 2011, In : Journal of Signal Processing Systems. 63, 1, p. 129-142 14 p.

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

**Towards usability heuristics for games utilizing speech recognition**

Halonen, A., Hyrynsalmi, S., Kimppa, K. K., Knuutila, T., Smed, J. & Hakonen, H., 2012, *4th Asian Conference on Intelligent Games and Simulation, GAME-ON ASIA 2012 - 4th Asian Simulation Technology Conference, ASTEC 2012*. EUROSIS, p. 51-55 5 p.

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

**Toward Efficient Execution of RVC-CAL Dataflow Programs on Multicore Platforms**

Hautala, I., Boutellier, J., Nyländén, T. & Silvén, O., Nov 2018, In : Journal of Signal Processing Systems. 90, 11, p. 1507-1517 11 p.

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

**UX work in startups: Current practices and future needs**

Hokkanen, L. & Väänänen-Vainio-Mattila, K., 2015, *Agile Processes in Software Engineering and Extreme Programming: 16th International Conference, XP 2015, Helsinki, Finland, May 25-29, 2015, Proceedings*. Springer Verlag, Vol. 212, p. 81-92 12 p. (Lecture Notes in Business Information Processing; vol. 212).

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

#### **Minimum viable user experience: A framework for supporting product design in startups**

Hokkanen, L., Kuusinen, K. & Väänänen, K., 2016, *Agile Processes, in Software Engineering, and Extreme Programming: 17th International Conference, XP 2016, Edinburgh, UK, May 24-27, 2016, Proceedings*. Springer Verlag, p. 66-78 13 p. (Lecture Notes in Business Information Processing; vol. 251).

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

#### **Target tracking via combination of particle filter and optimisation techniques**

Hosseini, S. S. S., Jamali, M. M., Astola, J. & Gorsevski, P. V., 2016, In : *International Journal of Mathematical Modelling and Numerical Optimization*. 7, 2, p. 212-229 18 p.

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

#### **Independent Loops Search in Flow Networks Aiming for Well-Conditioned System of Equations**

Humaloja, J-P., Ali-Löytty, S., Pohjolainen, S. & Hämäläinen, T., 2017, *Progress in Industrial Mathematics at ECMI 2016*. Quintela, P., Barral, P., Gómez, D., Pena, F. J., Rodríguez, J., Salgado, P. & Vázquez-Mendéz, M. E. (eds.). Springer International Publishing, (Mathematics in industry; vol. 26).

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

#### **Power Mitigation by Performance Equalization in a Heterogeneous Reconfigurable Multicore Architecture**

Hussain, W., Hoffmann, H., Ahonen, T. & Nurmi, J., Jun 2017, In : *Journal of Signal Processing Systems*. 87, 3, p. 287-297 11 p.

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

#### **Wealthy, healthy and/or happy —what does 'ecosystem health' stand for?**

Hyrnsalmi, S., Seppänen, M., Nokkala, T., Suominen, A. & Järvi, A., 2015, *6th International Conference on Software Business, ICSOB 2015; Braga; Portugal; 10 June 2015 through 12 June 2015*. Springer Verlag, Vol. 210. p. 272-287 16 p. (Lecture Notes in Business Information Processing; vol. 210).

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

#### **Revenue models of application developers in android market ecosystem**

Hyrnsalmi, S., Suominen, A., Mäkilä, T., Järvi, A. & Knuutila, T., 2012, *Software Business - Third International Conference, ICSOB 2012, Proceedings*. Springer Verlag, p. 209-222 14 p. (Lecture Notes in Business Information Processing; vol. 114).

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

#### **Lean software startup – an experience report from an entrepreneurial software business course**

Järvi, A., Taajamaa, V. & Hyrnsalmi, S., 2015, *Software Business - 6th International Conference, ICSOB 2015, Proceedings*. Springer Verlag, Vol. 210. p. 230-244 15 p. (Lecture Notes in Business Information Processing; vol. 210).

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

#### **Effect of paint baking treatment on the properties of press hardened boron steels**

Järvinen, H., Honkanen, M., Järvenpää, M. & Peura, P., 2018, In : *Journal of Materials Processing Technology*. 252, p. 90-104 15 p.

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

#### **Reduced level of docosahexaenoic acid shifts GPCR neuroreceptors to less ordered membrane regions**

Javanainen, M., Enkavi, G., Guixà-González, R., Kulig, W., Martinez-Seara, H., Levental, I. & Vattulainen, I., 1 May 2019, In : *PLoS Computational Biology*. 15, 5, e1007033.

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

#### **Entropy analysis of word-length series of natural language texts: Effects of text language and genre**

Kalimeri, M., Constantoudis, V., Papadimitriou, C., Karamanos, K., Diakonou, F. K. & Papageorgiou, H., Sep 2012, In : *INTERNATIONAL JOURNAL OF BIFURCATION AND CHAOS*. 22, 9, 1250223.

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

#### **Computationally efficient optimization algorithms for model predictive control of linear systems with integer inputs**

Karamanakos, P., Geyer, T. & Kennel, R., 16 Dec 2015, *2015 54th IEEE Conference on Decision and Control, CDC 2015*. p. 3663-3668 6 p.

#### **Mapping parameterized cyclo-static dataflow graphs onto configurable hardware**

Kee, H., Shen, C. C., Bhattacharyya, S. S., Wong, I., Rao, Y. & Kornerup, J., 2012, In : *Journal of Signal Processing Systems*. 66, 3, p. 285-301 17 p.

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

#### **PRBS-based loop gain identification and output impedance shaping in DC microgrid power converters**

Khodamoradi, A., Liu, G., Mattavelli, P., Messo, T. & Abedini, H., 2020, In : *Mathematics and Computers in Simulation*. 13 p.

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

#### **Implementation of a Multirate Resampler for Multi-carrier Systems on GPUs**

Kim, S. C. & Bhattacharyya, S. S., 2017, In : *Journal of Signal Processing Systems*. 89, 3, p. 445-455 11 p.

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

#### **Workplace performance of a loose-fitting powered air purifying respirator during nanoparticle synthesis**

Koivisto, A. J., Aromaa, M., Koponen, I. K., Fransman, W., Jensen, K. A., Mäkelä, J. M. & Hämeri, K. J., 9 Apr 2015, In : *Journal of Nanoparticle Research*. 17, 4

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

#### **A simulation case study of production planning and control in printed wiring board manufacturing**

Korhonen, H. M. E., Heikkilä, J. & Törnwall, J. M., 1 Dec 2001, In : *Winter Simulation Conference Proceedings*. 2, p. 844-847 4 p.

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

#### **Influence of specimen type and reinforcement on measured tension-tension fatigue life of unidirectional GFRP laminates**

Korkiakoski, S., Brøndsted, P., Sarlin, E. & Saarela, O., 1 Apr 2016, In : *International Journal of Fatigue*. 85, p. 114-129 16 p.

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

#### **Implementation of a direct procedure for critical point computations using preconditioned iterative solvers**

Kouhia, R., Tüma, M., Mäkinen, J., Fedoroff, A. & Marjamäki, H., Oct 2012, In : *Computers & Structures*. 108-109, p. 110-117 8 p.

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

#### **Improved Session Continuity in 5G NR with Joint Use of Multi-Connectivity and Guard Bandwidth**

Kovalchukov, R., Moltchanov, D., Begishev, V., Samuylov, A., Andreev, S., Koucheryavy, Y. & Samouylov, K., 20 Feb 2019, *2018 IEEE Global Communications Conference, GLOBECOM 2018*. IEEE

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

#### **Very sharp diffraction peak in nonglass-forming liquid with the formation of distorted tetraclusters**

Koyama, C., Tahara, S., Kohara, S., Onodera, Y., Småbråten, D. R., Selbach, S. M., Akola, J., Ishikawa, T., Masuno, A., Mizuno, A., Okada, J. T., Watanabe, Y., Nakata, Y., Ohara, K., Tamaru, H., Oda, H., Obayashi, I., Hiraoka, Y. & Sakata, O., 2020, In : *NPG ASIA MATERIALS*. 12, 1, 11 p., 43.

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

#### **Pneumatic unidirectional cell stretching device for mechanobiological studies of cardiomyocytes**

Kreutzer, J., Viehrig, M., Pölonen, R. P., Zhao, F., Ojala, M., Aalto-Setälä, K. & Kallio, P., 23 Aug 2019, In : *BIOMECHANICS AND MODELING IN MECHANOBIOLOGY*.

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

#### **Analysis of common rail pressure signal of dual-fuel large industrial engine for identification of injection duration of pilot diesel injectors**

Krogerus, T., Hyvönen, M. & Huhtala, K., Mar 2018, In : *Fuel*. 216, p. 1-9

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

### **Ageing first passage time density in continuous time random walks and quenched energy landscapes**

Krüseemann, H., Godec, A. & Metzler, R., 17 Jul 2015, In : *Journal of Physics A: Mathematical and Theoretical*. 48, 28, 285001.

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

### **Color Constancy Convolutional Autoencoder**

Laakom, F., Raitoharju, J., Iosifidis, A., Nikkanen, J. & Gabbouj, M., 2019, *2019 IEEE Symposium Series on Computational Intelligence, SSCI 2019*. IEEE, p. 1085-1090 6 p. 9002684

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

### **Applying SCRUM in an OSS development process: An empirical evaluation**

Lavazza, L., Morasca, S., Taibi, D. & Tosi, D., 2010, *Agile Processes in Software Engineering and Extreme Programming - 11th International Conference, XP 2010, Proceedings*. Springer Verlag, Vol. 48 LNBIIP. p. 147-159 13 p. (Lecture Notes in Business Information Processing; vol. 48 LNBIIP).

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

### **OP2A: How to improve the quality of the web portal of open source software products**

Lavazza, L., Morasca, S., Taibi, D. & Tosi, D., 2011, *Web Information Systems and Technologies - 7th International Conference, WEBIST 2011, Revised Selected Papers*. Springer Verlag, p. 149-162 14 p. (Lecture Notes in Business Information Processing; vol. 101 LNBIIP).

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

### **Prioritizing corrective maintenance activities for android applications: An industrial case study on android crash reports**

Lenarduzzi, V., Stan, A. C., Taibi, D., Venters, G. & Windegger, M., Jan 2018, *Software Quality: Methods and Tools for Better Software and Systems - 10th International Conference, SWQD 2018, Proceedings*. Springer-Verlag Berlin Heidelberg, p. 133-143 11 p. (Lecture Notes in Business Information Processing; vol. 302).

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

### **Functional size measures and effort estimation in agile development: A replicated study**

Lenarduzzi, V., Lunesu, I., Matta, M. & Taibi, D., 2015, *Agile Processes, in Software Engineering, and Extreme Programming - 16th International Conference, XP 2015, Proceedings*. Springer-Verlag Berlin Heidelberg, Vol. 212. p. 105-116 12 p. (Lecture Notes in Business Information Processing; vol. 212).

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

### **Influence of relative humidity and physical load during storage on dustiness of inorganic nanomaterials: implications for testing and risk assessment**

Levin, M., Rojas, E., Vanhala, E., Vippola, M., Liguori, B., Kling, K. I., Koponen, I. K., Mølhav, K., Tuomi, T., Gregurec, D., Moya, S. & Jensen, K. A., 14 Aug 2015, In : *Journal of Nanoparticle Research*. 17, 8, 337.

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

### **Parallel Digital Predistortion Design on Mobile GPU and Embedded Multicore CPU for Mobile Transmitters**

Li, K., Ghazi, A., Tarver, C., Boutellier, J., Abdelaziz, M., Anttila, L., Juntti, M., Valkama, M. & Cavallaro, J. R., 2017, In : *Journal of Signal Processing Systems*. 89, 3, p. 417-430 14 p.

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

### **On the effect of deformation twinning and microstructure to strain hardening of high manganese austenitic steel 3D microstructure aggregates at large strains**

Lindroos, M., Laukkanen, A., Cailletaud, G. & Kuokkala, V.-T., 2017, In : *International Journal of Solids and Structures*. 125, p. 68-76

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

### **Reconfigurable computing for future vision-capable devices**

López, M. B., Nieto, A., Silván, O., Bóutellier, J. & Vilariño, D. L., 22 Dec 2015, *Proceedings - 2015 International Conference on Embedded Computer Systems: Architectures, Modeling and Simulation, SAMOS 2015*. Institute of Electrical and Electronics Engineers Inc., p. 34-41 8 p. 7363657

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

#### **Passive condition pre-enforcement for rights exporting**

Lu, W., Nummenmaa, J. & Zhang, Z., 2015, *Perspectives in Business Informatics Research - 14th International Conference, BIR 2015, Proceedings*. Springer Verlag, Vol. 229. p. 241-254 14 p. (Lecture Notes in Business Information Processing; vol. 229).

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

#### **Characterizing trustworthy digital rights exporting**

Lu, W., Zhang, Z. & Nummenmaa, J., 2012, *Perspectives in Business Informatics Research - 11th International Conference, BIR 2012, Proceedings*. Springer Verlag, Vol. 128 LNBIP. p. 85-95 11 p. (Lecture Notes in Business Information Processing; vol. 128 LNBIP).

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

#### **Possible structures of nonstoichiometric tin oxide: The composition Sn<sub>2</sub>O<sub>3</sub>**

Mäki-Jaskari, M. A. & Rantala, T. T., Jan 2004, In : *Modelling and Simulation in Materials Science and Engineering*. 12, 1, p. 33-41 9 p.

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

#### **Preoperative simulation for the planning of microsurgical clipping of intracranial aneurysms**

Marinho, P., Vermandel, M., Bourgeois, P., Lejeune, J. P., Mordon, S. & Thines, L., 20 Dec 2014, In : *SIMULATION IN HEALTHCARE*. 9, 6, p. 370-376 7 p.

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

#### **Urothelial cancer gene regulatory networks inferred from large-scale RNAseq, Bead and Oligo gene expression data**

Matos Simoes, R. D., Dalleau, S., Williamson, K. E. & Emmert-Streib, F., 14 May 2015, In : *BMC Systems Biology*. 9, 21.

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

#### **A prospect for computing in porous materials research: Very large fluid flow simulations**

Mattila, K., Puurtinen, T., Hyväluoma, J., Surmas, R., Myllys, M., Turpeinen, T., Robertsén, F., Westerholm, J. & Timonen, J., 1 Jan 2016, In : *Journal of Computational Science*. 12, p. 62-76 15 p.

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

#### **A hybrid optimization grey model based on segmented gra and multi-strategy contest for short-term power load forecasting**

Min, J., Xiang, Z., Zhiming, Z. & Tentzeris, M. M., 2012, In : *JOURNAL OF GREY SYSTEM*. 24, 1, p. 15-28 14 p.

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

#### **Towards an approach for evaluating the quality of requirements**

Mokammel, F., Coatanea, E., Christophe, F., Ba Khouya, M. & Medyna, G., 2013, *33rd Computers and Information in Engineering Conference*. American Society of Mechanical Engineers, Vol. 2 B. V02BT02A024

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

#### **Data augmentation approaches for improving animal audio classification**

Nanni, L., Maguolo, G. & Paci, M., 2020, In : *Ecological Informatics*. 57, 8 p., 101084.

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

#### **Safety at chimney-roof penetration: A numerical investigation**

Neri, M., Perttu, L., Alanen, M., Luscietti, D. & Pilotelli, M., 2020, *Building Simulation Applications, BSA 2019 - 4th IBPSA-Italy Conference*. Pernigotto, G., Patuzzi, F., Prada, A., Corrado, V. & Gasparella, A. (eds.). Free University of Bozen Bolzano, p. 123-130 8 p. (Building Simulation Applications; vol. 2020-June).

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

#### **Vehicle Attribute Recognition by Appearance: Computer Vision Methods for Vehicle Type, Make and Model Classification**

Ni, X. & Huttunen, H., 2020, In : *Journal of Signal Processing Systems*.

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



#### **Timely report production from WWW data sources**

Niinimäki, M., Niemi, T., Martin, S., Nummenmaa, J. & Thanisch, P., 2012, *Workshops on Business Informatics Research, BIR 2011 International Workshops and Doctoral Consortium, Revised Selected Papers*. Springer Verlag, Vol. 106 LNBIP. p. 184-195 12 p. (Lecture Notes in Business Information Processing; vol. 106 LNBIP).

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

#### **Employing a multi-Objective robust optimisation method for healthy and low-energy dwelling design in Delhi, India**

Nix, E., Das, P., Taylor, J. & Davies, M., 1 Jan 2015, *Proceedings of the 2014 Building Simulation and Optimization Conference*. p. 2093-2100 8 p.

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

#### **Reconfigurable miniature sensor nodes for condition monitoring**

Nylander, T., Boutellier, J., Nikunen, K., Hannuksela, J. & Silven, O., 2012, *Proceedings - 2012 International Conference on Embedded Computer Systems: Architectures, Modeling and Simulation, IC-SAMOS 2012*. p. 113-119 7 p. 6404164

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

#### **Theory driven design and real proto typing of biomass pyrolytic stove**

Ogeya, M. C., Coatanéa, E. & Medyna, G., 2013, *Proceedings of the International Conference on Engineering Design, ICED*. Vol. 9 DS75-09. p. 69-78 10 p.

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

#### **Continuum approach to high-cycle fatigue. The finite life-time case with stochastic stress history**

Orelma, H., 2019, In : *Vestnik Samarskogo Gosudarstvennogo Tekhnicheskogo Universiteta, Seriya Fiziko-Matematicheskie Nauki*. 23, 3, p. 452-463 12 p.

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

#### **Time-dependent SIR modeling for D2D communications in indoor deployments**

Orlov, Y., Zenyuk, D., Samouylov, A., Moltchanov, D., Andreev, S., Romashkova, O., Gaidamaka, Y. & Samouylov, K., 2017, *Proceedings - 31st European Conference on Modelling and Simulation, ECMS 2017*. EUROPEAN COUNCIL FOR MODELLING AND SIMULATION, p. 726-731 6 p.

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

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

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

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

#### **Enhanced multiaxial fatigue criterion that considers stress gradient effects**

Ottosen, N. S., Ristinmaa, M. & Kouhia, R., 1 Nov 2018, In : *International Journal of Fatigue*. 116, p. 128-139 12 p.

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

#### **Search reliability and search efficiency of combined Lévy-Brownian motion: Long relocations mingled with thorough local exploration**

Palyulin, V. V., Chechkin, A. V., Klages, R. & Metzler, R., 8 Sep 2016, In : *Journal of Physics A: Mathematical and Theoretical*. 49, 39, 394002.

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

#### **Assessment of mutation probabilities of KRAS G12 missense mutants and their long-timescale dynamics by atomistic molecular simulations and Markov state modeling**

Pantsar, T., Rissanen, S., Dauch, D., Laitinen, T., Vattulainen, I. & Poso, A., 10 Sep 2018, In : *PLoS Computational Biology*. 14, 9, e1006458.

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

#### **Digital Predistortion for 5G Small Cell: GPU Implementation and RF Measurements**

Pascual Campo, P., Lampu, V., Meirhaeghe, A., Boutellier, J., Anttila, L. & Valkama, M., 2019, In : *Journal of Signal Processing Systems*. 12 p.

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

#### **A comparison between joint regression analysis and the AMMI model: A case study with barley**

Pereira, D. G., Rodrigues, P. C., Mejza, S. & Mexia, J. T., Feb 2012, In : JOURNAL OF STATISTICAL COMPUTATION AND SIMULATION. 82, 2, p. 193-207 15 p.

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

#### **Distant speech separation using predicted time-frequency masks from spatial features**

Pertilä, P. & Nikunen, J., 2015, In : Speech Communication. 68, p. 97-106 10 p.

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

#### **Acoustic Modelling**

Pohjolainen, S. & Suutala, A., 30 Jun 2016, *Mathematical Modelling*. Pohjolainen, S. (ed.). Switzerland: Springer, p. 185-205 21 p.

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

#### **Structural Similarity Index with Predictability of Image Blocks**

Ponomarenko, M., Egiazarian, K., Lukin, V. & Abramova, V., 10 Sep 2018, *2018 IEEE 17th International Conference on Mathematical Methods in Electromagnetic Theory, MMET 2018 - Proceedings*. IEEE COMPUTER SOCIETY PRESS, Vol. 2018-July. p. 115-118 4 p. 8460285

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

#### **Data Vault Mappings to Dimensional Model Using Schema Matching**

Puonti, M. & Raitalaakso, T., 1 Jan 2019, *Research and Practical Issues of Enterprise Information Systems - 13th IFIP WG 8.9 International Conference, CONFENIS 2019, Proceedings*. Doucek, P., Basl, J., Pavlicek, A., Tjoa, A. M., Detter, K. & Raffai, M. (eds.). Springer, p. 55-64 10 p. (Lecture Notes in Business Information Processing; vol. 375).

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

#### **On Confidences and Their Use in (Semi-)Automatic Multi-Image Taxa Identification**

Raitoharju, J. & Meissner, K., 2019, *2019 IEEE Symposium Series on Computational Intelligence, SSCI 2019*. IEEE, p. 1338-1343 6 p. 9002975

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

#### **Automatic word count estimation from daylong child-centered recordings in various language environments using language-independent syllabification of speech**

Räsänen, O., Seshadri, S., Karadayi, J., Riebling, E., Bunce, J., Cristia, A., Metze, F., Casillas, M., Rosemberg, C., Bergelson, E. & Soderstrom, M., 1 Oct 2019, In : Speech Communication. 113, p. 63-80 18 p.

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

#### **Active scanner control on paper machines**

Raunio, J-P. & Ritala, R., 1 Dec 2018, In : Journal of Process Control. 72, p. 74-90 17 p.

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

#### **Spectral modeling of time series with missing data**

Rodrigues, P. C. & de Carvalho, M., 1 Apr 2013, In : Applied Mathematical Modelling. 37, 7, p. 4676-4684 9 p.

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

#### **On prediction of DCT-based denoising efficiency under spatially correlated noise conditions**

Rubel, O., Lukin, V. & Egiazarian, K., 12 Apr 2016, *2016 13th International Conference on Modern Problems of Radio Engineering, Telecommunications and Computer Science (TCSET)*. IEEE, p. 750-754 5 p.

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

#### **Software vulnerability life cycles and the age of software products: An empirical assertion with operating system products**

Ruohonen, J., Hyrynsalmi, S. & Leppänen, V., 2016, *Advanced Information Systems Engineering Workshops - CAiSE 2016 International Workshops, Proceedings*. Springer Verlag, p. 207-218 12 p. (Lecture Notes in Business Information Processing; vol. 249).

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

#### **Software evolution and time series volatility: An empirical exploration**

Ruohonen, J., Hyrynsalmi, S. & Leppänen, V., 30 Aug 2015, *14th International Workshop on Principles of Software Evolution, IWPSE 2015 - Proceedings*. Institute of Electrical and Electronics Engineers Inc., Vol. 30-Aug-2015. p. 56-65 10 p.

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

#### **Quantifying the non-ergodicity of scaled Brownian motion**

Safdari, H., Cherstvy, A. G., Chechkin, A. V., Thiel, F., Sokolov, I. M. & Metzler, R., 18 Sep 2015, In : *Journal of Physics A: Mathematical and Theoretical*. 48, 37, 375002.

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

#### **An origami inspired reconfigurable spiral antenna**

Saintsing, C. D., Cook, B. S. & Tentzeris, M. M., 2014, *38th Mechanisms and Robotics Conference*. The American Society of Mechanical Engineers ASME, Vol. 5B.

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

#### **Technostress and social networking services: Uncovering strains and their underlying stressors**

Salo, M., Pirkkalainen, H. & Koskelainen, T., 2017, *Nordic Contributions in IS Research - 8th Scandinavian Conference on Information Systems, SCIS 2017, Proceedings*. Springer Verlag, p. 41-53 13 p. (Lecture Notes in Business Information Processing; vol. 294).

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

#### **Sir analysis in square-shaped indoor premises**

Samuylov, A., Moltchanov, D., Gaidamaka, Y., Begishev, V., Kovalchukov, R., Abaev, P. & Shorgin, S., 2016, *Proceedings - 30th European Conference on Modelling and Simulation, ECMS 2016*. EUROPEAN COUNCIL FOR MODELLING AND SIMULATION, p. 692-697 6 p.

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

#### **Comb Model with Slow and Ultraslow Diffusion**

Sandev, T., Iomin, A., Kantz, H., Metzler, R. & Chechkin, A., 2016, In : *Mathematical Modelling of Natural Phenomena*. 11, 3, p. 18-33 16 p.

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

#### **Topological patterns for scalable representation and analysis of dataflow graphs**

Sane, N., Kee, H., Seetharaman, G. & Bhattacharyya, S. S., 2011, In : *Journal of Signal Processing Systems*. 65, 2, p. 229-244 16 p.

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

#### **Business Model Innovation of Startups Developing Multisided Digital Platforms**

Still, K., Seppänen, M., Korhonen, H., Valkokari, K., Suominen, A. & Kumpulainen, M., 17 Aug 2017, *Proceedings - 2017 IEEE 19th Conference on Business Informatics, CBI 2017*. IEEE, p. 70-75 6 p.

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

#### **Cuts for 3-D magnetic scalar potentials: Visualizing unintuitive surfaces arising from trivial knots**

Stockrahm, A., Lahtinen, V., Kangas, J. J. J. & Kotiuga, P. R., 2019, (Accepted/In press) In : *Computers and Mathematics with Applications*.

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

#### **Ecosystems Here, There, and Everywhere — A Barometrical Analysis of the Roots of 'Software Ecosystem'**

Suominen, A., Hyrynsalmi, S. & Seppänen, M., 2016, *Software Business: 7th International Conference, ICSOB 2016, Ljubljana, Slovenia, June 13-14, 2016, Proceedings*. Springer Verlag, p. 32-46 15 p. (Lecture Notes in Business Information Processing; vol. 240).

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

### **Eeny, Meeny, Miny, Mo...: A multiple case study on selecting a technique for user-interaction data collecting**

Suonsyrjä, S., 2017, *Agile Processes in Software Engineering and Extreme Programming - 18th International Conference, XP 2017, Proceedings*. Springer Verlag, p. 52-67 16 p. (Lecture Notes in Business Information Processing; vol. 283).

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

### **Development of an England-wide indoor overheating and air pollution model using artificial neural networks**

Symonds, P., Taylor, J., Chalabi, Z., Mavrogianni, A., Davies, M., Hamilton, I., Vardoulakis, S., Heaviside, C. & Macintyre, H., 1 Nov 2016, In : *JOURNAL OF BUILDING PERFORMANCE SIMULATION*. 9, 6, p. 606-619 14 p.

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

### **Comparing requirements decomposition within the Scrum, Scrum with Kanban, XP, and Banana development processes**

Taibi, D., Lenarduzzi, V., Janes, A., Liukkunen, K. & Ahmad, M. O., 2017, *Agile Processes in Software Engineering and Extreme Programming - 18th International Conference, XP 2017, Proceedings*. Springer Verlag, p. 68-83 16 p. (Lecture Notes in Business Information Processing; vol. 283).

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

### **Towards a lean approach to reduce code smells injection: An empirical study**

Taibi, D., Janes, A. & Lenarduzzi, V., 2016, *Agile Processes in Software Engineering and Extreme Programming - 17th International Conference, XP 2016, Proceedings*. Springer Verlag, (Lecture Notes in Business Information Processing; vol. 251).

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

### **Client-Side Cornucopia: Comparing the Built-In Application Architecture Models in the Web Browser**

Taivalasaari, A., Mikkonen, T., Pautasso, C. & Systä, K., 2019, *Web Information Systems and Technologies - 14th International Conference, WEBIST 2018, Revised Selected Papers*. Escalona, M. J., Domínguez Mayo, F., Majchrzak, T. A. & Monfort, V. (eds.). Springer, p. 1-24 24 p. (Lecture Notes in Business Information Processing; vol. 372).

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

### **Adaptive autoregressive model for reduction of noise in SPECT**

Takalo, R., Hytti, H., Ihalainen, H. & Sohlberg, A., 2015, In : *Computational and Mathematical Methods in Medicine*. 2015, 494691.

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

### **The assessment of constructability: BIM cases**

Tauriainen, M., Puttonen, J., Saari, A., Laakso, P. & Forsblom, K., 2015, *eWork and eBusiness in Architecture, Engineering and Construction - Proceedings of the 10th European Conference on Product and Process Modelling, ECPPM 2014*. CRC Press/Balkema, p. 55-61 7 p.

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

### **The development of constructability using BIM as an intensifying technology**

Tauriainen, M., Mero, A. K., Lemström, A., Puttonen, J. & Saari, A., 2012, *eWork and eBusiness in Architecture, Engineering and Construction - Proceedings of the European Conference on Product and Process Modelling 2012, ECPPM 2012*. p. 713-716 4 p.

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

### **Using building simulation to model the drying of flooded building archetypes**

Taylor, J., Biddulph, P., Davies, M., Ridley, I., Mavrogianni, A., Oikonomou, E. & Lai, K. M., 1 Mar 2013, In : *JOURNAL OF BUILDING PERFORMANCE SIMULATION*. 6, 2, p. 119-140 22 p.

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

### **Using the entity-attribute-value model for olap cube construction**

Thanisch, P., Niemi, T., Niinimäki, M. & Nummenmaa, J., 2011, *Perspectives in Business Informatics Research - 10th International Conference, BIR 2011, Proceedings*. Springer Verlag, Vol. 90 LNBIP. p. 59-72 14 p. (Lecture Notes in Business Information Processing; vol. 90 LNBIP).

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

### **Lean manufacturing methods in simulation literature: Review and association analysis**

Tokola, H., Niemi, E. & Väistö, V., 16 Feb 2016, *2015 Winter Simulation Conference (WSC)*. p. 2239-2248 10 p.  
Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

### **Analysis of the damping characteristics of two power electronics-based devices using 'individual channel analysis and design'**

Ugalde-Loo, C. E., Acha, E. & Licéaga-Castro, E., 1 Jul 2018, In : *Applied Mathematical Modelling*. 59, p. 527-545 19 p.  
Research output: Contribution to journal › Article › Scientific › peer-review

### **Transverse structure optimization of laterally-coupled ridge waveguide DFB lasers**

Uusitalo, T., Virtanen, H. & Dumitrescu, M., 17 Aug 2016, *16th International Conference on Numerical Simulation of Optoelectronic Devices, NUSOD 2016*. IEEE, p. 79-80 2 p. 7547038  
Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

### **Simulation studies of DFB laser longitudinal structures for narrow linewidth emission**

Virtanen, H., Uusitalo, T. & Dumitrescu, M., 17 Aug 2016, *16th International Conference on Numerical Simulation of Optoelectronic Devices, NUSOD 2016*. IEEE, p. 153-154 2 p.  
Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

### **Atomistic fingerprint of hyaluronan-CD44 binding**

Vuorio, J., Vattulainen, I. & Martinez-Seara, H., 1 Jul 2017, In : *PLoS Computational Biology*. 13, 7, e1005663.  
Research output: Contribution to journal › Article › Scientific › peer-review

### **Parameterized scheduling of topological patterns in signal processing dataflow graphs**

Wang, L. H., Shen, C. C., Wu, S. & Bhattacharyya, S. S., 2013, In : *Journal of Signal Processing Systems*. 71, 3, p. 275-286 12 p.  
Research output: Contribution to journal › Article › Scientific › peer-review

### **Dimension reduction and decomposition using causal graph and qualitative analysis for aircraft concept design optimization**

Wu, D., Coatanea, E. & Wang, G. G., 2017, *43rd Design Automation Conference*. The American Society of Mechanical Engineers ASME  
Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

### **Model-Based Dynamic Scheduling for Multicore Signal Processing**

Wu, J., Blattner, T., Keyrouz, W. & Bhattacharyya, S. S., 2018, In : *Journal of Signal Processing Systems*. p. 1-14 14 p.  
Research output: Contribution to journal › Article › Scientific › peer-review

### **Optimization of Flexible Filter Banks Based on Fast Convolution**

Yli-Kaakinen, J. & Renfors, M., Aug 2016, In : *Journal of Signal Processing Systems*. 85, 1, p. 101-111  
Research output: Contribution to journal › Article › Scientific › peer-review

### **Two models for hydraulic cylinders in flexible multibody simulations**

Ylinen, A., Mäkinen, J. & Kouhia, R., 2016, *Computational Methods for Solids and Fluids: Multiscale Analysis, Probability Aspects and Model Reduction*. Springer, p. 463-493 31 p. (Computational Methods in Applied Sciences; vol. 41).  
Research output: Chapter in Book/Report/Conference proceeding › Chapter › Scientific › peer-review

### **The Fisher-Snedecor F Distribution: A Simple and Accurate Composite Fading Model**

Yoo, S. K., Cotton, S. L., Sofotasios, P. C., Matthaiou, M., Valkama, M. & Karagiannidis, G. K., 1 Jul 2017, In : *IEEE Communications Letters*. 21, 7, p. 1661-1664 4 p.  
Research output: Contribution to journal › Article › Scientific › peer-review

### **Energy Detection-Based Spectrum Sensing over Fisher-Snedecor F Fading Channels**

Yoo, S. K., Cotton, S. L., Sofotasios, P. C., Muhaidat, S., Badarneh, O. S. & Karagiannidis, G. K., 20 Feb 2019, *2018 IEEE Global Communications Conference*. IEEE, 8647778  
Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

**To network or not to network? Analysis of the Finnish software industry-A networking approach**

Yrjönkoski, K., Helander, N. & Jaakkola, H., 2016, *Software Business: 7th International Conference, ICSOB 2016, Ljubljana, Slovenia, June 13-14, 2016, Proceedings*. Springer Verlag, p. 124-134 11 p. (Lecture Notes in Business Information Processing; vol. 240).

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

**Integration of dataflow-based heterogeneous multiprocessor scheduling techniques in GNU radio**

Zaki, G. F., Plishker, W., Bhattacharyya, S. S., Clancy, C. & Kuykendall, J., Feb 2013, In : *Journal of Signal Processing Systems*. 70, 2, p. 177-191 15 p.

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