

**Neural networks, cell cultures and some older work on data analysis.** / Acimovic, Jugoslava.  
2009. Paper presented at Okinawa Computational Neuroscience Course 2009, Japan.  
Research output: Other conference contribution > Paper, poster or abstract > Scientific

**IEEE 802.11ac MIMO Transceiver Baseband Processing on a VLIW Processor.** / Aghababaeetafreshi, Mona; Lehtonen, Lasse K.; Levanen, Toni; Valkama, Mikko; Takala, Jarmo.  
In: Journal of Signal Processing Systems, 2016.  
Research output: Contribution to journal > Article > Scientific > peer-review

**Model for evaluating additive manufacturing feasibility in end-use production.** / Ahtiluoto, Matti; Ellman, Asko; Coatanea, Eric.  
In: Proceedings of the International Conference on Engineering Design, ICED, Vol. 1, No. 1, 2019, p. 799-808.  
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, Zaid; van der Vlugt, Steven; Jääskeläinen, Pekka; van der Linden, Frank.  
In: Journal of Signal Processing Systems, Vol. 91, No. 1, 01.2019, p. 1-7.  
Research output: Contribution to journal > Article > Scientific > peer-review

**Structural influence of gene networks on their inference : Analysis of C3NET.** / Altay, Gökmen; Emmert-Streib, Frank.  
In: Biology Direct, Vol. 6, 31, 22.06.2011.  
Research output: Contribution to journal > Article > Scientific > peer-review

**Inferring the conservative causal core of gene regulatory networks.** / Altay, Gökmen; Emmert-Streib, Frank.  
In: BMC Systems Biology, Vol. 4, 132, 28.09.2010.  
Research output: Contribution to journal > Article > Scientific > peer-review

**Performance evaluation of a flow control algorithm for network-on-chip.** / Bakhouya, Mohamed; Chariete, Abderrahim; Gaber, Jaafar; Wack, Maxime; Niar, Smail; Coatanea, Eric.  
Proceedings of the 2012 International Conference on High Performance Computing and Simulation, HPCS 2012. 2012. p. 281-287 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, Lee; Bhattacharyya, Shuvra S.; Liu, Yanzhou.  
In: Journal of Signal Processing Systems, Vol. 87, No. 1, 2017, 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.  
In: Journal of Physics A: Mathematical and Theoretical, Vol. 49, No. 1, 015205, 09.12.2015.  
Research output: Contribution to journal > Article > Scientific > peer-review

**Overview of the MPEG reconfigurable video coding framework.** / Bhattacharyya, Shuvra S.; Eker, Johan; Janneck, Jörn W.; Lucarz, Christophe; Mattavelli, Marco; Raulet, Mickaël.  
In: Journal of Signal Processing Systems, Vol. 63, No. 2, 05.2011, p. 251-263.  
Research output: Contribution to journal > Article > Scientific > peer-review

**A Hybrid Task Graph Scheduler for High Performance Image Processing Workflows.** / Blattner, Timothy; Keyrouz, Walid; Bhattacharyya, Shuvra S.; Halem, Milton; Brady, Mary.  
In: Journal of Signal Processing Systems, Vol. 89, No. 3, 2017, p. 457-467.  
Research output: Contribution to journal > Article > Scientific > peer-review

**Conformational properties of complex polymers : Rosette versus star-like structures.** / Blavatska, V.; Metzler, R.  
In: Journal of Physics A: Mathematical and Theoretical, Vol. 48, No. 13, 135001, 07.04.2015.  
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.  
ICDC 2018 - 5th International Conference on Design Creativity, Conference Proceedings. ed. / Elies Dekoninck; Andrew Wodehouse; Chris Snider; Georgi Georgiev; Gaetano Cascini. DESIGN SOCIETY, 2018. (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, Jani; Silvén, Olli.  
In: Journal of Signal Processing Systems, Vol. 73, No. 2, 11.2013, p. 137-142.  
Research output: Contribution to journal › Article › Scientific › peer-review

**Automatic hierarchical discovery of quasi-static schedules of RVC-CAL dataflow programs.** / Boutellier, Jani; Raulet, Mickaël; Silvén, Olli.  
In: Journal of Signal Processing Systems, Vol. 71, No. 1, 2013, p. 35-40.  
Research output: Contribution to journal › Article › Scientific › peer-review

**Quasi-static scheduling of CAL actor networks for reconfigurable video coding.** / Boutellier, Jani; Lucarz, Christophe; Lafond, Sébastien; Gomez, Victor Martin; Mattavelli, Marco.  
In: Journal of Signal Processing Systems, Vol. 63, No. 2, 05.2011, p. 191-202.  
Research output: Contribution to journal › Article › Scientific › peer-review

**Design Flow for GPU and Multicore Execution of Dynamic Dataflow Programs.** / Boutellier, J.; Nyländen, T.  
In: Journal of Signal Processing Systems, Vol. 89, No. 3, 2017, p. 469-478.  
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, Pedro; Martins, Leonardo; Mora, André; S. Ribeiro, Andre; Fonseca, José.  
SIMULTECH 2016 - Proceedings of the 6th International Conference on Simulation and Modeling Methodologies, Technologies and Applications. SCITEPRESS, 2016. p. 44-55.  
Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

**Instrumentation-Driven Validation of Dataflow Applications.** / Chukhman, Ilya; Jiao, Yang; Salem, Haifa Ben; Bhattacharyya, Shuvra S.  
In: Journal of Signal Processing Systems, Vol. 84, No. 3, 2016, 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, Eric; Ritola, Tuomas; Tumer, Irem Y.; Jensen, David.  
Proceedings of the ASME Design Engineering Technical Conference. Vol. 5 AMER SOC MECHANICAL ENGINEERS, 2010. p. 591-601.  
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, Eric; Yannou, Bernard; Honkala, Sauli; Lajunen, Antti; Saarelainen, Tanja; Makkonen, Petri.  
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, 2008. p. 173-182.  
Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

**Graph based representation and analyses for conceptual stages.** / Coatanéa, Eric; Nonsiri, Sarayut; Christophe, Francois; Mokammel, Faisal.  
34th Computers and Information in Engineering Conference. Vol. 1A The American Society of Mechanical Engineers ASME, 2014.  
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, Eric; Wu, Di; Tsarkov, Vadim; Gary Wang, G.; Modi, Siddhant; Jafarian, Hesam.

38th Computers and Information in Engineering Conference. Vol. 1B-2018 The American Society of Mechanical Engineers ASME, 2018.

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

**Properties of graph distance measures by means of discrete inequalities.** / Dehmer, Matthias; Chen, Zengqiang; Emmert-Streib, Frank; Shi, Yongtang; Tripathi, Shailesh; Musa, Aliyu; Mowshowitz, Abbe.

In: Applied Mathematical Modelling, Vol. 59, 01.07.2018, p. 739-749.

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, Ricardo; Tripathi, Shailesh; Emmert-Streib, Frank.

In: BMC Systems Biology, Vol. 6, 38, 14.05.2012.

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

**PiMM : Parameterized and interfaced dataflow meta-model for MPSoCs runtime reconfiguration.** / Desnos, Karol; Pelcat, Maxime; Nezan, Jean François; Bhattacharyya, Shuvra S.; Aridhi, Slaheddine.

Proceedings - 2013 International Conference on Embedded Computer Systems: Architectures, Modeling and Simulation, IC-SAMOS 2013. IEEE COMPUTER SOCIETY PRESS, 2013. p. 41-48 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.

In: International Journal on Interactive Design and Manufacturing, Vol. 9, No. 4, 22.03.2015, p. 325-338.

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.

16th International Conference on Numerical Simulation of Optoelectronic Devices, NUSOD 2016. IEEE, 2016. p. 147-148.

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, Silas; Rasilo, Paavo; Hameyer, Kay.

In: International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, 2020.

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

**Guest Editorial : Implementation Issues in System-on-Chip.** / Ellervee, Peeter; Nurmi, Jari.

In: Journal of Signal Processing Systems, Vol. 87, No. 3, 01.06.2017, p. 269-270.

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, Frank; Tripathi, Shailesh; Matos Simoes, Ricardo D.

In: Biology Direct, Vol. 7, 44, 10.12.2012.

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

**Pathway analysis of expression data : Deciphering functional building blocks of complex diseases.** / Emmert-Streib, Frank ; Glazko, Galina V.

In: PLoS Computational Biology, Vol. 7, No. 5, e1002053, 05.2011.

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

**Networks for systems biology : Conceptual connection of data and function.** / Emmert-Streib, F.; Dehmer, M.

In: IET Systems Biology, Vol. 5, No. 3, 05.2011, p. 185-207.

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.  
In: IET Systems Biology, Vol. 4, No. 4, ISBEAT000004000004000277000001, 07.2010, p. 277-288.  
Research output: Contribution to journal › Article › Scientific › peer-review

**Hierarchical coordination of periodic genes in the cell cycle of *Saccharomyces cerevisiae*.** / Emmert-Streib, Frank; Dehmer, Matthias.  
In: BMC Systems Biology, Vol. 3, 76, 20.07.2009.  
Research output: Contribution to journal › Article › Scientific › peer-review

**Information processing in the transcriptional regulatory network of yeast : Functional robustness.** / Emmert-Streib, Frank; Dehmer, Matthias.  
In: BMC Systems Biology, Vol. 3, 35, 19.03.2009.  
Research output: Contribution to journal › Article › Scientific › peer-review

**Algorithmic computation of knot polynomials of secondary structure elements of proteins.** / Emmert-Streib, Frank.  
In: Journal of Computational Biology, Vol. 13, No. 8, 01.10.2006, p. 1503-1512.  
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, Giray; Mikkolainen, Heikki; Güngör, Burçin; Ikonen, Elina; Vattulainen, Ilpo.  
In: PLoS Computational Biology, Vol. 13, No. 10, e1005831, 01.10.2017.  
Research output: Contribution to journal › Article › Scientific › peer-review

**Sir distribution in D2D environment with non-stationary mobility of users.** / Fedorov, Sergey; Orlov, Yurii; Samuylov, Andrey; Moltchanov, Dmitri; Gaidamaka, Yuliya; Samouylov, Konstantin; Shorgin, Sergey.  
Proceedings - 31st European Conference on Modelling and Simulation, ECMS 2017. EUROPEAN COUNCIL FOR MODELLING AND SIMULATION, 2017. p. 720-725.  
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, Georgi Yordanov; Aho, Tommi; Kesseli, Juha; Yli-Harja, Olli; Kauffman, Stuart A.  
Evolution, Development and Complexity - Multiscale Evolutionary Models of Complex Adaptive Systems. ed. / Claudio L. Flores Martinez; Georgi Yordanov Georgiev; John M. Smart; Michael E. Price. Springer, 2019. p. 229-244 (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, Vlad; Hatonen, Jari; Kyyra, Jorma; Suntio, Teuvo.  
PESC 1998 - 29th Annual IEEE Power Electronics Specialists Conference. Institute of Electrical and Electronics Engineers Inc., 1998. p. 72-78 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, Ruirui; Janneck, Jörn W.; Raulet, Mickaël; Bhattacharyya, Shuvra S.  
In: Journal of Signal Processing Systems, Vol. 63, No. 1, 04.2011, p. 129-142.  
Research output: Contribution to journal › Article › Scientific › peer-review

**Towards usability heuristics for games utilizing speech recognition.** / Halonen, Aki; Hyrynsalmi, Sami; Kimppa, Kai K.; Knuutila, Timo; Smed, Jouni; Hakonen, Harri.  
4th Asian Conference on Intelligent Games and Simulation, GAME-ON ASIA 2012 - 4th Asian Simulation Technology Conference, ASTEC 2012. EUROSIS, 2012. p. 51-55.  
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, Ilkka; Boutellier, Jani; Nyländén, Teemu; Silvén, Olli.  
In: Journal of Signal Processing Systems, Vol. 90, No. 11, 11.2018, p. 1507-1517.  
Research output: Contribution to journal › Article › Scientific › peer-review

**UX work in startups : Current practices and future needs.** / Hokkanen, Laura; Väänänen-Vainio-Mattila, Kaisa.

Agile Processes in Software Engineering and Extreme Programming: 16th International Conference, XP 2015, Helsinki, Finland, May 25-29, 2015, Proceedings. Vol. 212 Springer Verlag, 2015. p. 81-92 (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, Laura; Kuusinen, Kati; Väänänen, Kaisa.

Agile Processes, in Software Engineering, and Extreme Programming: 17th International Conference, XP 2016, Edinburgh, UK, May 24-27, 2016, Proceedings. Springer Verlag, 2016. p. 66-78 (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, Seyyed Soheil Sadat; Jamali, Mohsin M.; Astola, Jaakko; Gorsevski, Peter V.

In: International Journal of Mathematical Modelling and Numerical Optimization, Vol. 7, No. 2, 2016, p. 212-229.

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

**Independent Loops Search in Flow Networks Aiming for Well-Conditioned System of Equations.** / Humaloja, Jukka-Pekka; Ali-Löytty, Simo; Pohjolainen, Seppo; Hämäläinen, Timo.

Progress in Industrial Mathematics at ECMI 2016. ed. / Peregrina Quintela; Patricia Barral; Dolores Gómez; Francisco J. Pena; Jerónimo Rodríguez; Pilar Salgado; Miguel E. Vázquez-Méndez. Springer International Publishing, 2017. (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, Waqar; Hoffmann, Henry; Ahonen, Tapani; Nurmi, Jari.

In: Journal of Signal Processing Systems, Vol. 87, No. 3, 06.2017, p. 287-297.

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

**Wealthy, healthy and/or happy —what does 'ecosystem health' stand for?** / Hyrynsalmi, Sami; Seppänen, Marko; Nokkala, Tiina; Suominen, Arho; Järvi, Antero.

6th International Conference on Software Business, ICSOB 2015; Braga; Portugal; 10 June 2015 through 12 June 2015. Vol. 210 Springer Verlag, 2015. p. 272-287 (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.** / Hyrynsalmi, Sami; Suominen, Arho; Mäkilä, Tuomas; Järvi, Antero; Knuutila, Timo.

Software Business - Third International Conference, ICSOB 2012, Proceedings. Springer Verlag, 2012. p. 209-222 (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, Antero; Taajamaa, Ville; Hyrynsalmi, Sami.

Software Business - 6th International Conference, ICSOB 2015, Proceedings. Vol. 210 Springer Verlag, 2015. p. 230-244 (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, Henri; Honkanen, Mari; Järvenpää, Martti; Peura, Pasi.

In: Journal of Materials Processing Technology, Vol. 252, 2018, p. 90-104.

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

**Reduced level of docosahexaenoic acid shifts GPCR neuroreceptors to less ordered membrane regions.** / Javanainen, Matti; Enkavi, Giray; Guixà-Gonzaléz, Ramon; Kulig, Waldemar; Martinez-Seara, Hector; Levental, Ilya; Vattulainen, Ilpo.

In: PLoS Computational Biology, Vol. 15, No. 5, e1007033, 01.05.2019.

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, Maria; Constantoudis, Vassilios; Papadimitriou, Constantinos; Karamanos, Konstantinos; Diakonos, Fotis K.; Papageorgiou, Haris.

In: INTERNATIONAL JOURNAL OF BIFURCATION AND CHAOS, Vol. 22, No. 9, 1250223, 09.2012.

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

**Computationally efficient optimization algorithms for model predictive control of linear systems with integer inputs.** / Karamanakos, Petros; Geyer, Tobias; Kennel, Ralph.

2015 54th IEEE Conference on Decision and Control, CDC 2015. 2015. p. 3663-3668.

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

**Mapping parameterized cyclo-static dataflow graphs onto configurable hardware.** / Kee, Hojin; Shen, Chung Ching; Bhattacharyya, Shuvra S.; Wong, Ian; Rao, Yong; Kornerup, Jacob.

In: Journal of Signal Processing Systems, Vol. 66, No. 3, 2012, p. 285-301.

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

**PRBS-based loop gain identification and output impedance shaping in DC microgrid power converters.** / Khodamoradi, Aram; Liu, Guangyuan; Mattavelli, Paolo; Messo, Tuomas; Abedini, Hossein.

In: Mathematics and Computers in Simulation, 2020.

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

**Implementation of a Multirate Resampler for Multi-carrier Systems on GPUs.** / Kim, Scott C.; Bhattacharyya, Shuvra S.

In: Journal of Signal Processing Systems, Vol. 89, No. 3, 2017, p. 445-455.

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

**Workplace performance of a loose-fitting powered air purifying respirator during nanoparticle synthesis.** / Koivisto, Antti J.; Aromaa, Mikko; Koponen, Ismo K.; Fransman, Wouter; Jensen, Keld A.; Mäkelä, Jyrki M.; Hämeri, Kaarle J.

In: Journal of Nanoparticle Research, Vol. 17, No. 4, 09.04.2015.

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, Jussi; Törnwall, Jon M.

In: Winter Simulation Conference Proceedings, Vol. 2, 01.12.2001, p. 844-847.

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.** / Korhikoski, Samuli; Brøndsted, Povl; Sarlin, Essi; Saarela, Olli.

In: International Journal of Fatigue, Vol. 85, 01.04.2016, p. 114-129.

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

**Implementation of a direct procedure for critical point computations using preconditioned iterative solvers.** / Kouhia, Reijo; Tuma, Miroslav; Mäkinen, Jari; Fedoroff, Alexis; Marjamäki, Heikki.

In: Computers & Structures, Vol. 108-109, 10.2012, p. 110-117.

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, Roman; Moltchanov, Dmitri; Begishev, Vyacheslav; Samuylov, Andrey; Andreev, Sergey; Koucheryavy, Yevgeni; Samouylov, Konstantin.

2018 IEEE Global Communications Conference, GLOBECOM 2018. IEEE, 2019.

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, Chihiro; Tahara, Shuta; Kohara, Shinji; Onodera, Yohei; Småbråten, Didrik R.; Selbach, Sverre M.; Akola, Jaakko; Ishikawa, Takehiko; Masuno, Atsunobu; Mizuno, Akitoshi; Okada, Junpei T.; Watanabe, Yuki; Nakata, Yui; Ohara, Koji; Tamaru, Haruka; Oda, Hirohisa; Obayashi, Ippei; Hiraoka, Yasuyuki; Sakata, Osami.

In: NPG ASIA MATERIALS, Vol. 12, No. 1, 43, 2020.

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

**Pneumatic unidirectional cell stretching device for mechanobiological studies of cardiomyocytes.** / Kreutzer, Joose; Viehrig, Marlitt; Pölonen, Risto Pekka; Zhao, Feihu; Ojala, Marisa; Aalto-Setälä, Katriina; Kallio, Pasi.

In: BIOMECHANICS AND MODELING IN MECHANOBIOLOGY, 23.08.2019.

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, Tomi; Hyvönen, Mika; Huhtala, Kalevi.

In: Fuel, Vol. 216, 03.2018, 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.** / Krüsemann, Henning; Godec, Aljaž; Metzler, Ralf.

In: Journal of Physics A: Mathematical and Theoretical, Vol. 48, No. 28, 285001, 17.07.2015.

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

**Color Constancy Convolutional Autoencoder.** / Laakom, Firas; Raitoharju, Jenni; Iosifidis, Alexandros; Nikkanen, Jarno; Gabbouj, Moncef.

2019 IEEE Symposium Series on Computational Intelligence, SSCI 2019. IEEE, 2019. p. 1085-1090 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, Luigi; Morasca, Sandro; Taibi, Davide; Tosi, Davide.

Agile Processes in Software Engineering and Extreme Programming - 11th International Conference, XP 2010, Proceedings. Vol. 48 LNBIP Springer Verlag, 2010. p. 147-159 (Lecture Notes in Business Information Processing; Vol. 48 LNBIP).

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, Luigi; Morasca, Sandro ; Taibi, Davide; Tosi, Davide.

Web Information Systems and Technologies - 7th International Conference, WEBIST 2011, Revised Selected Papers. Springer Verlag, 2011. p. 149-162 (Lecture Notes in Business Information Processing; Vol. 101 LNBIP).

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, Valentina; Stan, Alexandru Cristian; Taibi, Davide; Venters, Gustavs; Windegger, Markus.

Software Quality: Methods and Tools for Better Software and Systems - 10th International Conference, SWQD 2018, Proceedings. Springer-Verlag Berlin Heidelberg, 2018. p. 133-143 (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, Valentina; Lunesu, Ilaria; Matta, Martina; Taibi, Davide.

Agile Processes, in Software Engineering, and Extreme Programming - 16th International Conference, XP 2015, Proceedings. Vol. 212 Springer-Verlag Berlin Heidelberg, 2015. p. 105-116 (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, Marcus; Rojas, Elena; Vanhala, Esa; Vippola, Minnamari; Liguori, Biase; Kling, Kirsten I.; Koponen, Ismo K.; Mølhave, Kristian; Tuomi, Timo; Gregurec, Danijela; Moya, Sergio; Jensen, Keld A.

In: Journal of Nanoparticle Research, Vol. 17, No. 8, 337, 14.08.2015.

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

**Parallel Digital Predistortion Design on Mobile GPU and Embedded Multicore CPU for Mobile Transmitters.** / Li, Kaipeng; Ghazi, Amanullah; Tarver, Chance; Boutellier, Jani; Abdelaziz, Mahmoud; Anttila, Lauri; Juntti, Markku; Valkama, Mikko; Cavallaro, Joseph R.

In: Journal of Signal Processing Systems, Vol. 89, No. 3, 2017, p. 417–430.

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, Matti; Laukkanen, Anssi; Cailletaud, Georges; Kuokkala, Veli-Tapani.

In: International Journal of Solids and Structures, Vol. 125, 2017, p. 68-76.

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

**Reconfigurable computing for future vision-capable devices.** / López, Miguel Bordallo; Nieto, Alejandro; Silvén, Olli; Bóutellier, Jani; Vilariño, David López.

Proceedings - 2015 International Conference on Embedded Computer Systems: Architectures, Modeling and Simulation, SAMOS 2015. Institute of Electrical and Electronics Engineers Inc., 2015. p. 34-41 7363657.

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

**Passive condition pre-enforcement for rights exporting.** / Lu, Wenhui; Nummenmaa, Jyrki; Zhang, Zheyang.

Perspectives in Business Informatics Research - 14th International Conference, BIR 2015, Proceedings. Vol. 229

Springer Verlag, 2015. p. 241-254 (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, Wenhui; Zhang, Zheyang; Nummenmaa, Jyrki.

Perspectives in Business Informatics Research - 11th International Conference, BIR 2012, Proceedings. Vol. 128 LNBIP

Springer Verlag, 2012. p. 85-95 (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, Matti A.; Rantala, Tapio T.

In: Modelling and Simulation in Materials Science and Engineering, Vol. 12, No. 1, 01.2004, p. 33-41.

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

**Preoperative simulation for the planning of microsurgical clipping of intracranial aneurysms.** / Marinho, Paulo; Vermandel, Maximilien; Bourgeois, Philippe; Lejeune, Jean Paul; Mordon, Serge; Thines, Laurent.

In: SIMULATION IN HEALTHCARE, Vol. 9, No. 6, 20.12.2014, p. 370-376.

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, Ricardo de; Dalleau, Sabine; Williamson, Kate E.; Emmert-Streib, Frank.

In: BMC Systems Biology, Vol. 9, 21, 14.05.2015.

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

**A prospect for computing in porous materials research : Very large fluid flow simulations.** / Mattila, Keijo; Puurtinen, Tuomas; Hyväluoma, Jari; Surmas, Rodrigo; Myllys, Markko; Turpeinen, Tuomas; Robertsén, Fredrik; Westerholm, Jan; Timonen, Jussi.

In: Journal of Computational Science, Vol. 12, 01.01.2016, p. 62-76.

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, Jin; Xiang, Zhou; Zhiming, Zhang; Tentzeris, Manos M.

In: JOURNAL OF GREY SYSTEM, Vol. 24, No. 1, 2012, p. 15-28.

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

**Towards an approach for evaluating the quality of requirements.** / Mokammel, Faisal; Coatanea, Eric; Christophe, Francois; Ba Khouya, Mohamed; Medyna, Galina.

33rd Computers and Information in Engineering Conference. Vol. 2 B American Society of Mechanical Engineers, 2013. V02BT02A024.



**Data augmentation approaches for improving animal audio classification.** / Nanni, Loris; Maguolo, Gianluca; Paci, Michelangelo.

In: Ecological Informatics, Vol. 57, 101084, 2020.

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

**Safety at chimney-roof penetration : A numerical investigation.** / Neri, Manuela; Perttu, Leppänen; Alanen, Mika; Luscietti, Davide; Pilotelli, Mariagrazia.

Building Simulation Applications, BSA 2019 - 4th IBPSA-Italy Conference. ed. / Giovanni Pernigotto; Francesco Patuzzi; Alessandro Prada; Vincenzo Corrado; Andrea Gasparella. Free University of Bozen Bolzano, 2020. p. 123-130 (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, Xingyang; Huttunen, Heikki.

In: Journal of Signal Processing Systems, 2020.

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

**Timely report production from WWW data sources.** / Niinimäki, Marko; Niemi, Tapio; Martin, Stephen; Nummenmaa, Jyrki; Thanisch, Peter.

Workshops on Business Informatics Research, BIR 2011 International Workshops and Doctoral Consortium, Revised Selected Papers. Vol. 106 LNBIP Springer Verlag, 2012. p. 184-195 (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, Emily; Das, Payel; Taylor, Jonathon; Davies, Michael.

Proceedings of the 2014 Building Simulation and Optimization Conference. 2015. p. 2093-2100.

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

**Reconfigurable miniature sensor nodes for condition monitoring.** / Nylander, Teemu; Boutellier, Jani; Nikunen, Karri; Hannuksela, Jari; Silven, Olli.

Proceedings - 2012 International Conference on Embedded Computer Systems: Architectures, Modeling and Simulation, IC-SAMOS 2012. 2012. p. 113-119 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, Mbeo Calvince; Coatanéa, Eric; Medyna, Galina.

Proceedings of the International Conference on Engineering Design, ICED. Vol. 9 DS75-09 2013. p. 69-78.

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.

In: Vestnik Samarskogo Gosudarstvennogo Tekhnicheskogo Universiteta, Seriya Fiziko-Matematicheskie Nauki, Vol. 23, No. 3, 2019, p. 452-463.

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

**Time-dependent SIR modeling for D2D communications in indoor deployments.** / Orlov, Yurii; Zenyuk, Dmitry; Samuylov, Andrey; Moltchanov, Dmitri; Andreev, Sergey; Romashkova, Oxana; Gaidamaka, Yuliya; Samouylov, Konstantin.

Proceedings - 31st European Conference on Modelling and Simulation, ECMS 2017. EUROPEAN COUNCIL FOR MODELLING AND SIMULATION, 2017. p. 726-731.

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.

2018 IEEE 19th Workshop on Control and Modeling for Power Electronics, COMPEL 2018. IEEE, 2018. 8460173.

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

**Enhanced multiaxial fatigue criterion that considers stress gradient effects.** / Ottosen, Niels Saabye; Ristinmaa, Matti; Kouhia, Reijo.

In: International Journal of Fatigue, Vol. 116, 01.11.2018, p. 128-139.

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, Vladimir V.; Chechkin, Aleksei V.; Klages, Rainer; Metzler, Ralf.

In: Journal of Physics A: Mathematical and Theoretical, Vol. 49, No. 39, 394002, 08.09.2016.

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, Tatu; Rissanen, Sami; Dauch, Daniel; Laitinen, Tuomo; Vattulainen, Ilpo; Poso, Antti.

In: PLoS Computational Biology, Vol. 14, No. 9, e1006458, 10.09.2018.

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

**Digital Predistortion for 5G Small Cell : GPU Implementation and RF Measurements.** / Pascual Campo, Pablo; Lampu, Vesa; Meirhaeghe, Alexandre; Boutellier, Jani; Anttila, Lauri; Valkama, Mikko.

In: Journal of Signal Processing Systems, 2019.

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, Dulce G.; Rodrigues, Paulo C.; Mejza, Stanislaw; Mexia, João T.

In: JOURNAL OF STATISTICAL COMPUTATION AND SIMULATION, Vol. 82, No. 2, 02.2012, p. 193-207.

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

**Distant speech separation using predicted time-frequency masks from spatial features.** / Pertilä, Pasi; Nikunen, Joonas.

In: Speech Communication, Vol. 68, 2015, p. 97-106.

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

**Acoustic Modelling.** / Pohjolainen, Seppo; Suutala, Antti.

Mathematical Modelling. ed. / Seppo Pohjolainen. Switzerland : Springer, 2016. p. 185-205.

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

**Structural Similarity Index with Predictability of Image Blocks.** / Ponomarenko, Mykola; Egiazarian, Karen; Lukin, Vladimir; Abramova, Victoriya.

2018 IEEE 17th International Conference on Mathematical Methods in Electromagnetic Theory, MMET 2018 - Proceedings. Vol. 2018-July IEEE COMPUTER SOCIETY PRESS, 2018. p. 115-118 8460285.

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

**Data Vault Mappings to Dimensional Model Using Schema Matching.** / Puonti, Mikko; Raitalaakso, Timo.

Research and Practical Issues of Enterprise Information Systems - 13th IFIP WG 8.9 International Conference, CONFENIS 2019, Proceedings. ed. / Petr Doucek; Josef Basl; Antonin Pavlicek; A Min Tjoa; Katrin Detter; Maria Raffai. Springer, 2019. p. 55-64 (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, Jenni; Meissner, Kristian.

2019 IEEE Symposium Series on Computational Intelligence, SSCI 2019. IEEE, 2019. p. 1338-1343 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, Okko; Seshadri, Shreyas; Karadayi, Julien; Riebling, Eric; Bunce, John; Cristia, Alejandrina; Metzke, Florian; Casillas, Marisa; Rosemberg, Celia; Bergelson, Erika; Soderstrom, Melanie.

In: Speech Communication, Vol. 113, 01.10.2019, p. 63-80.

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

**Active scanner control on paper machines.** / Raunio, Jukka-Pekka; Ritala, Risto.

In: Journal of Process Control, Vol. 72, 01.12.2018, p. 74-90.

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

**Spectral modeling of time series with missing data.** / Rodrigues, Paulo C.; de Carvalho, Miguel.

In: Applied Mathematical Modelling, Vol. 37, No. 7, 01.04.2013, p. 4676-4684.

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

**On prediction of DCT-based denoising efficiency under spatially correlated noise conditions.** / Rubel, Oleksii; Lukin, Vladimir; Egiazarian, Karen.

2016 13th International Conference on Modern Problems of Radio Engineering, Telecommunications and Computer Science (TCSET) . IEEE, 2016. p. 750-754.

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, Jukka; Hyrynsalmi, Sami; Leppänen, Ville.

Advanced Information Systems Engineering Workshops - CAiSE 2016 International Workshops, Proceedings. Springer Verlag, 2016. p. 207-218 (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, Jukka; Hyrynsalmi, Sami; Leppänen, Ville.

14th International Workshop on Principles of Software Evolution, IWPSE 2015 - Proceedings. Vol. 30-Aug-2015 Institute of Electrical and Electronics Engineers Inc., 2015. p. 56-65.

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

**Quantifying the non-ergodicity of scaled Brownian motion.** / Safdari, Hadiseh; Cherstvy, Andrey G.; Checkin, Aleksei V.; Thiel, Felix; Sokolov, Igor M.; Metzler, Ralf.

In: Journal of Physics A: Mathematical and Theoretical, Vol. 48, No. 37, 375002, 18.09.2015.

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

**An origami inspired reconfigurable spiral antenna.** / Saintsing, Christy D.; Cook, Benjamin S.; Tentzeris, Manos M.

38th Mechanisms and Robotics Conference. Vol. 5B The American Society of Mechanical Engineers ASME, 2014.

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, Markus; Pirkkalainen, Henri; Koskelainen, Tiina.

Nordic Contributions in IS Research - 8th Scandinavian Conference on Information Systems, SCIS 2017, Proceedings. Springer Verlag, 2017. p. 41-53 (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, Yu; Begishev, V.; Kovalchukov, R.; Abaev, P.; Shorgin, S.

Proceedings - 30th European Conference on Modelling and Simulation, ECMS 2016. EUROPEAN COUNCIL FOR MODELLING AND SIMULATION, 2016. p. 692-697.

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.; Checkin, A.

In: Mathematical Modelling of Natural Phenomena, Vol. 11, No. 3, 2016, p. 18-33.

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

**Topological patterns for scalable representation and analysis of dataflow graphs.** / Sane, Nimish; Kee, Hojin; Seetharaman, Gunasekaran; Bhattacharyya, Shuvra S.

In: Journal of Signal Processing Systems, Vol. 65, No. 2, 2011, p. 229-244.

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

**Business Model Innovation of Startups Developing Multisided Digital Platforms.** / Still, Kaisa; Seppänen, Marko; Korhonen, Heidi; Valkokari, Katri; Suominen, Arho; Kumpulainen, Miika.

Proceedings - 2017 IEEE 19th Conference on Business Informatics, CBI 2017. IEEE, 2017. p. 70-75.

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, Alex; Lahtinen, Valtteri; Kangas, Jari J.J.; Kotiuga, P. Robert.

In: Computers and Mathematics with Applications, 2019.

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

**Ecosystems Here, There, and Everywhere — A Barometrical Analysis of the Roots of ‘Software Ecosystem’.** / Suominen, Arho; Hyrynsalmi, Sami; Seppänen, Marko.

Software Business: 7th International Conference, ICSOB 2016, Ljubljana, Slovenia, June 13-14, 2016, Proceedings. Springer Verlag, 2016. p. 32-46 (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, Sampo.

Agile Processes in Software Engineering and Extreme Programming - 18th International Conference, XP 2017, Proceedings. Springer Verlag, 2017. p. 52-67 (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, Phil; Taylor, Jonathon; Chalabi, Zaid; Mavrogianni, Anna; Davies, Michael; Hamilton, Ian; Vardoulakis, Sotiris; Heaviside, Clare; Macintyre, Helen.

In: JOURNAL OF BUILDING PERFORMANCE SIMULATION, Vol. 9, No. 6, 01.11.2016, p. 606-619.

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

**Comparing requirements decomposition within the Scrum, Scrum with Kanban, XP, and Banana development processes.** / Taibi, Davide; Lenarduzzi, Valentina; Janes, Andrea; Liukkunen, Kari; Ahmad, Muhammad Ovais.

Agile Processes in Software Engineering and Extreme Programming - 18th International Conference, XP 2017, Proceedings. Springer Verlag, 2017. p. 68-83 (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, Davide; Janes, Andrea; Lenarduzzi, Valentina.

Agile Processes in Software Engineering and Extreme Programming - 17th International Conference, XP 2016, Proceedings. Springer Verlag, 2016. (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.** / Taivalsaari, Antero; Mikkonen, Tommi; Pautasso, Cesare; Systä, Kari.

Web Information Systems and Technologies - 14th International Conference, WEBIST 2018, Revised Selected Papers. ed. / María José Escalona; Francisco Domínguez Mayo; Tim A. Majchrzak; Valérie Monfort. Springer, 2019. p. 1-24 (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, Reijo; Hytti, Heli; Ihalainen, Heimo; Sohlberg, Antti.

In: Computational and Mathematical Methods in Medicine, Vol. 2015, 494691, 2015.

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.

eWork and eBusiness in Architecture, Engineering and Construction - Proceedings of the 10th European Conference on Product and Process Modelling, ECPPM 2014. CRC Press/Balkema, 2015. p. 55-61.

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.

eWork and eBusiness in Architecture, Engineering and Construction - Proceedings of the European Conference on Product and Process Modelling 2012, ECPPM 2012. 2012. p. 713-716.

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, Jonathon; Biddulph, Phillip; Davies, Michael; Ridley, Ian; Mavrogianni, Anna; Oikonomou, Eleni; Lai, Ka Man.

In: JOURNAL OF BUILDING PERFORMANCE SIMULATION, Vol. 6, No. 2, 01.03.2013, p. 119-140.

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

**Using the entity-attribute-value model for olap cube construction.** / Thanisch, Peter; Niemi, Tapio; Niinimäki, Marko; Nummenmaa, Jyrki.

Perspectives in Business Informatics Research - 10th International Conference, BIR 2011, Proceedings. Vol. 90 LNBIP Springer Verlag, 2011. p. 59-72 (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, Henri; Niemi, Esko; Väistö, Ville.

2015 Winter Simulation Conference (WSC). 2016. p. 2239-2248.

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, Carlos E.; Acha, Enrique; Licéaga-Castro, Eduardo.

In: Applied Mathematical Modelling, Vol. 59, 01.07.2018, p. 527-545.

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

**Transverse structure optimization of laterally-coupled ridge waveguide DFB lasers.** / Uusitalo, Topi; Virtanen, Heikki; Dumitrescu, Mihail.

16th International Conference on Numerical Simulation of Optoelectronic Devices, NUSOD 2016. IEEE, 2016. p. 79-80 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, Heikki; Uusitalo, Topi; Dumitrescu, Mihail.

16th International Conference on Numerical Simulation of Optoelectronic Devices, NUSOD 2016. IEEE, 2016. p. 153-154.

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

**Atomistic fingerprint of hyaluronan-CD44 binding.** / Vuorio, Joni; Vattulainen, Ilpo; Martinez-Seara, Hector.

In: PLoS Computational Biology, Vol. 13, No. 7, e1005663, 01.07.2017.

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

**Parameterized scheduling of topological patterns in signal processing dataflow graphs.** / Wang, Lai Huei; Shen, Chung Ching; Wu, Shenpei; Bhattacharyya, Shuvra S.

In: Journal of Signal Processing Systems, Vol. 71, No. 3, 2013, p. 275-286.

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, Di; Coatanea, Eric; Wang, G. Gary.

43rd Design Automation Conference. The American Society of Mechanical Engineers ASME, 2017.

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

**Model-Based Dynamic Scheduling for Multicore Signal Processing.** / Wu, Jiahao; Blattner, Timothy; Keyrouz, Walid; Bhattacharyya, Shuvra S.

In: Journal of Signal Processing Systems, 2018, p. 1-14.  
Research output: Contribution to journal › Article › Scientific › peer-review

**Optimization of Flexible Filter Banks Based on Fast Convolution.** / Yli-Kaakinen, Juha; Renfors, Markku.  
In: Journal of Signal Processing Systems, Vol. 85, No. 1, 08.2016, p. 101-111.  
Research output: Contribution to journal › Article › Scientific › peer-review

**Two models for hydraulic cylinders in flexible multibody simulations.** / Ylinen, Antti; Mäkinen, Jari; Kouhia, Reijo.  
Computational Methods for Solids and Fluids: Multiscale Analysis, Probability Aspects and Model Reduction. Springer, 2016. p. 463-493 (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, Seong Ki; Cotton, Simon L.; Sofotasios, Paschalis C.; Matthaiou, Michail; Valkama, Mikko; Karagiannidis, George K.  
In: IEEE Communications Letters, Vol. 21, No. 7, 01.07.2017, p. 1661-1664.  
Research output: Contribution to journal › Article › Scientific › peer-review

**Energy Detection-Based Spectrum Sensing over Fisher-Snedecor F Fading Channels.** / Yoo, Seong Ki; Cotton, Simon L.; Sofotasios, Paschalis C.; Muhaidat, Sami; Badarneh, Osamah S.; Karagiannidis, George K.  
2018 IEEE Global Communications Conference. IEEE, 2019. 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, Katariina; Helander, Nina; Jaakkola, Hannu.  
Software Business: 7th International Conference, ICSOB 2016, Ljubljana, Slovenia, June 13-14, 2016, Proceedings. Springer Verlag, 2016. p. 124-134 (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, George F.; Plishker, William; Bhattacharyya, Shuvra S.; Clancy, Charles; Kuykendall, John.  
In: Journal of Signal Processing Systems, Vol. 70, No. 2, 02.2013, p. 177-191.  
Research output: Contribution to journal › Article › Scientific › peer-review