

- Pereira, Dulce G. ; Rodrigues, Paulo C. ; Mejza, Stanislaw ; Mexia, João T. / **A comparison between joint regression analysis and the AMMI model : A case study with barley**. In: JOURNAL OF STATISTICAL COMPUTATION AND SIMULATION. 2012 ; Vol. 82, No. 2. pp. 193-207.
- Raunio, Jukka-Pekka ; Ritala, Risto. / **Active scanner control on paper machines**. In: Journal of Process Control. 2018 ; Vol. 72. pp. 74-90.
- Takalo, Reijo ; Hytti, Heli ; Ihalainen, Heimo ; Sohlberg, Antti. / **Adaptive autoregressive model for reduction of noise in SPECT**. In: Computational and Mathematical Methods in Medicine. 2015 ; Vol. 2015.
- Krüsemann, Henning ; Godec, Aljaž ; Metzler, Ralf. / **Ageing first passage time density in continuous time random walks and quenched energy landscapes**. In: Journal of Physics A: Mathematical and Theoretical. 2015 ; Vol. 48, No. 28.
- Min, Jin ; Xiang, Zhou ; Zhiming, Zhang ; Tentzeris, Manos M. / **A hybrid optimization grey model based on segmented grey and multi-strategy contest for short-term power load forecasting**. In: JOURNAL OF GREY SYSTEM. 2012 ; Vol. 24, No. 1. pp. 15-28.
- Blattner, Timothy ; Keyrouz, Walid ; Bhattacharyya, Shuvra S. ; Halem, Milton ; Brady, Mary. / **A Hybrid Task Graph Scheduler for High Performance Image Processing Workflows**. In: Journal of Signal Processing Systems. 2017 ; Vol. 89, No. 3. pp. 457-467.
- Emmert-Streib, Frank. / **Algorithmic computation of knot polynomials of secondary structure elements of proteins**. In: Journal of Computational Biology. 2006 ; Vol. 13, No. 8. pp. 1503-1512.
- Al-Ars, Zaid ; van der Vlugt, Steven ; Jääskeläinen, Pekka ; van der Linden, Frank. / **ALMARVI System Solution for Image and Video Processing in Healthcare, Surveillance and Mobile Applications**. In: Journal of Signal Processing Systems. 2019 ; Vol. 91, No. 1. pp. 1-7.
- Krogerus, Tomi ; Hyvönen, Mika ; Huhtala, Kalevi. / **Analysis of common rail pressure signal of dual-fuel large industrial engine for identification of injection duration of pilot diesel injectors**. In: Fuel. 2018 ; Vol. 216. pp. 1-9.
- Ugalde-Loo, Carlos E. ; Acha, Enrique ; Licéaga-Castro, Eduardo. / **Analysis of the damping characteristics of two power electronics-based devices using 'individual channel analysis and design'**. In: Applied Mathematical Modelling. 2018 ; Vol. 59. pp. 527-545.
- Mattila, Keijo ; Puurtinen, Tuomas ; Hyväluoma, Jari ; Surmas, Rodrigo ; Mylly, Markko ; Turpeinen, Tuomas ; Robertsén, Fredrik ; Westerholm, Jan ; Timonen, Jussi. / **A prospect for computing in porous materials research : Very large fluid flow simulations**. In: Journal of Computational Science. 2016 ; Vol. 12. pp. 62-76.
- Pantsar, Tatu ; Rissanen, Sami ; Dauch, Daniel ; Laitinen, Tuomo ; Vattulainen, Ilpo ; Poso, Antti. / **Assessment of mutation probabilities of KRAS G12 missense mutants and their long-timescale dynamics by atomistic molecular simulations and Markov state modeling**. In: PLoS Computational Biology. 2018 ; Vol. 14, No. 9.
- Vuorio, Joni ; Vattulainen, Ilpo ; Martinez-Seara, Hector. / **Atomistic fingerprint of hyaluronan-CD44 binding**. In: PLoS Computational Biology. 2017 ; Vol. 13, No. 7.
- Boutellier, Jani ; Raulet, Mickaël ; Silván, Olli. / **Automatic hierarchical discovery of quasi-static schedules of RVC-CAL dataflow programs**. In: Journal of Signal Processing Systems. 2013 ; Vol. 71, No. 1. pp. 35-40.
- Räsänen, Okko ; Seshadri, Shreyas ; Karadayi, Julien ; Riebling, Eric ; Bunce, John ; Cristia, Alejandrina ; Metze, Florian ; Casillas, Marisa ; Rosemberg, Celia ; Bergelson, Erika ; Soderstrom, Melanie. / **Automatic word count estimation from daylong child-centered recordings in various language environments using language-independent syllabification of speech**. In: Speech Communication. 2019 ; Vol. 113. pp. 63-80.

Sandev, T. ; Iomin, A. ; Kantz, H. ; Metzler, R. ; Chechkin, A. / **Comb Model with Slow and Ultraslow Diffusion**. In: Mathematical Modelling of Natural Phenomena. 2016 ; Vol. 11, No. 3. pp. 18-33.

Enkavi, Giray ; Mikkolainen, Heikki ; Gungör, Burçin ; Ikonen, Elina ; Vattulainen, Ilpo. / **Concerted regulation of npc2 binding to endosomal/lysosomal membranes by bis(monoacylglycero)phosphate and sphingomyelin**. In: PLoS Computational Biology. 2017 ; Vol. 13, No. 10.

Blavatska, V. ; Metzler, R. / **Conformational properties of complex polymers : Rosette versus star-like structures**. In: Journal of Physics A: Mathematical and Theoretical. 2015 ; Vol. 48, No. 13.

Orelma, H. / **Continuum approach to high-cycle fatigue. The finite life-time case with stochastic stress history**. In: Vestnik Samarskogo Gosudarstvennogo Tekhnicheskogo Universiteta, Seriya Fiziko-Matematicheskie Nauki. 2019 ; Vol. 23, No. 3. pp. 452-463.

Stockrahm, Alex ; Lahtinen, Valtteri ; Kangas, Jari J.J. ; Kotiuga, P. Robert. / **Cuts for 3-D magnetic scalar potentials : Visualizing unintuitive surfaces arising from trivial knots**. In: Computers and Mathematics with Applications. 2019.

Nanni, Loris ; Maguolo, Gianluca ; Paci, Michelangelo. / **Data augmentation approaches for improving animal audio classification**. In: Ecological Informatics. 2020 ; Vol. 57.

Barford, Lee ; Bhattacharyya, Shuvra S. ; Liu, Yanzhou. / **Data Flow Algorithms for Processors with Vector Extensions : Handling Actors With Internal State**. In: Journal of Signal Processing Systems. 2017 ; Vol. 87, No. 1. pp. 21-31.

Boutellier, J. ; Nyländen, T. / **Design Flow for GPU and Multicore Execution of Dynamic Dataflow Programs**. In: Journal of Signal Processing Systems. 2017 ; Vol. 89, No. 3. pp. 469-478.

Symonds, Phil ; Taylor, Jonathon ; Chalabi, Zaid ; Mavrogianni, Anna ; Davies, Michael ; Hamilton, Ian ; Vardoulakis, Sotiris ; Heaviside, Clare ; Macintyre, Helen. / **Development of an England-wide indoor overheating and air pollution model using artificial neural networks**. In: JOURNAL OF BUILDING PERFORMANCE SIMULATION. 2016 ; Vol. 9, No. 6. pp. 606-619.

Pascual Campo, Pablo ; Lampu, Vesa ; Meirhaeghe, Alexandre ; Boutellier, Jani ; Anttila, Lauri ; Valkama, Mikko. / **Digital Predisortion for 5G Small Cell : GPU Implementation and RF Measurements**. In: Journal of Signal Processing Systems. 2019.

Pertilä, Pasi ; Nikunen, Joonas. / **Distant speech separation using predicted time-frequency masks from spatial features**. In: Speech Communication. 2015 ; Vol. 68. pp. 97-106.

Järvinen, Henri ; Honkanen, Mari ; Järvenpää, Martti ; Peura, Pasi. / **Effect of paint baking treatment on the properties of press hardened boron steels**. In: Journal of Materials Processing Technology. 2018 ; Vol. 252. pp. 90-104.

Ottosen, Niels Saabye ; Ristinmaa, Matti ; Kouhia, Reijo. / **Enhanced multiaxial fatigue criterion that considers stress gradient effects**. In: International Journal of Fatigue. 2018 ; Vol. 116. pp. 128-139.

Kalimeri, Maria ; Constantoudis, Vassilios ; Papadimitriou, Constantinos ; Karamanos, Konstantinos ; Diakonou, Fotis K. ; Papageorgiou, Haris. / **Entropy analysis of word-length series of natural language texts : Effects of text language and genre**. In: INTERNATIONAL JOURNAL OF BIFURCATION AND CHAOS. 2012 ; Vol. 22, No. 9.

Gu, Ruirui ; Janneck, Jörn W. ; Raulet, Mickaël ; Bhattacharyya, Shuvra S. / **Exploiting statically schedulable regions in dataflow programs**. In: Journal of Signal Processing Systems. 2011 ; Vol. 63, No. 1. pp. 129-142.

- Emmert-Streib, Frank ; Tripathi, Shailesh ; Matos Simoes, Ricardo D. / **Harnessing the complexity of gene expression data from cancer : From single gene to structural pathway methods**. In: *Biology Direct*. 2012 ; Vol. 7.
- Bencheikh, K. ; Räsänen, E. / **Hermitian one-particle density matrix through a semiclassical gradient expansion**. In: *Journal of Physics A: Mathematical and Theoretical*. 2015 ; Vol. 49, No. 1.
- Emmert-Streib, Frank ; Dehmer, Matthias. / **Hierarchical coordination of periodic genes in the cell cycle of *Saccharomyces cerevisiae***. In: *BMC Systems Biology*. 2009 ; Vol. 3.
- Elfgén, Silas ; Rasilo, Paavo ; Hameyer, Kay. / **Hysteresis and eddy-current losses in electrical steel utilising edge degradation due to cutting effects**. In: *International Journal of Numerical Modelling: Electronic Networks, Devices and Fields*. 2020.
- Aghababaeetafreshi, Mona ; Lehtonen, Lasse K. ; Levanen, Toni ; Valkama, Mikko ; Takala, Jarmo. / **IEEE 802.11ac MIMO Transceiver Baseband Processing on a VLIW Processor**. In: *Journal of Signal Processing Systems*. 2016.
- Kouhia, Reijo ; Tůma, Miroslav ; Mäkinen, Jari ; Fedoroff, Alexis ; Marjamäki, Heikki. / **Implementation of a direct procedure for critical point computations using preconditioned iterative solvers**. In: *Computers & Structures*. 2012 ; Vol. 108-109. pp. 110-117.
- Kim, Scott C. ; Bhattacharyya, Shuvra S. / **Implementation of a Multirate Resampler for Multi-carrier Systems on GPUs**. In: *Journal of Signal Processing Systems*. 2017 ; Vol. 89, No. 3. pp. 445-455.
- Altay, Gökmen ; Emmert-Streib, Frank. / **Inferring the conservative causal core of gene regulatory networks**. In: *BMC Systems Biology*. 2010 ; Vol. 4.
- 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. / **Influence of relative humidity and physical load during storage on dustiness of inorganic nanomaterials : implications for testing and risk assessment**. In: *Journal of Nanoparticle Research*. 2015 ; Vol. 17, No. 8.
- Korkiakoski, Samuli ; Brøndsted, Povl ; Sarlin, Essi ; Saarela, Olli. / **Influence of specimen type and reinforcement on measured tension-tension fatigue life of unidirectional GFRP laminates**. In: *International Journal of Fatigue*. 2016 ; Vol. 85. pp. 114-129.
- Emmert-Streib, Frank ; Dehmer, Matthias. / **Information processing in the transcriptional regulatory network of yeast : Functional robustness**. In: *BMC Systems Biology*. 2009 ; Vol. 3.
- Chukhman, Ilya ; Jiao, Yang ; Salem, Haifa Ben ; Bhattacharyya, Shuvra S. / **Instrumentation-Driven Validation of Dataflow Applications**. In: *Journal of Signal Processing Systems*. 2016 ; Vol. 84, No. 3. pp. 383-397.
- Zaki, George F. ; Plishker, William ; Bhattacharyya, Shuvra S. ; Clancy, Charles ; Kuykendall, John. / **Integration of dataflow-based heterogeneous multiprocessor scheduling techniques in GNU radio**. In: *Journal of Signal Processing Systems*. 2013 ; Vol. 70, No. 2. pp. 177-191.
- Di Gironimo, G. ; Lanzotti, A. ; Marzullo, D. ; Esposito, G. ; Carfora, D. ; Siuko, M. / **Iterative and Participative Axiomatic Design Process in complex mechanical assemblies : case study on fusion engineering**. In: *International Journal on Interactive Design and Manufacturing*. 2015 ; Vol. 9, No. 4. pp. 325-338.
- Emmert-Streib, F. ; Altay, G. / **Local network-based measures to assess the inferability of different regulatory networks**. In: *IET Systems Biology*. 2010 ; Vol. 4, No. 4. pp. 277-288.

Kee, Hojin ; Shen, Chung Ching ; Bhattacharyya, Shuvra S. ; Wong, Ian ; Rao, Yong ; Kornerup, Jacob. / **Mapping parameterized cyclo-static dataflow graphs onto configurable hardware**. In: Journal of Signal Processing Systems. 2012 ; Vol. 66, No. 3. pp. 285-301.

Wu, Jiahao ; Blattner, Timothy ; Keyrouz, Walid ; Bhattacharyya, Shuvra S. / **Model-Based Dynamic Scheduling for Multicore Signal Processing**. In: Journal of Signal Processing Systems. 2018 ; pp. 1-14.

Emmert-Streib, F. ; Dehmer, M. / **Networks for systems biology : Conceptual connection of data and function**. In: IET Systems Biology. 2011 ; Vol. 5, No. 3. pp. 185-207.

Lindroos, Matti ; Laukkanen, Anssi ; Cailletaud, Georges ; Kuokkala, Veli-Tapani. / **On the effect of deformation twinning and microstructure to strain hardening of high manganese austenitic steel 3D microstructure aggregates at large strains**. In: International Journal of Solids and Structures. 2017 ; Vol. 125. pp. 68-76.

Yli-Kaakinen, Juha ; Renfors, Markku. / **Optimization of Flexible Filter Banks Based on Fast Convolution**. In: Journal of Signal Processing Systems. 2016 ; Vol. 85, No. 1. pp. 101-111.

de Matos Simoes, Ricardo ; Tripathi, Shailesh ; Emmert-Streib, Frank. / **Organizational structure and the periphery of the gene regulatory network in B-cell lymphoma**. In: BMC Systems Biology. 2012 ; Vol. 6.

Bhattacharyya, Shuvra S. ; Eker, Johan ; Janneck, Jörn W. ; Lucarz, Christophe ; Mattavelli, Marco ; Raulet, Mickaël. / **Overview of the MPEG reconfigurable video coding framework**. In: Journal of Signal Processing Systems. 2011 ; Vol. 63, No. 2. pp. 251-263.

Li, Kaipeng ; Ghazi, Amanullah ; Tarver, Chance ; Boutellier, Jani ; Abdelaziz, Mahmoud ; Anttila, Lauri ; Juntti, Markku ; Valkama, Mikko ; Cavallaro, Joseph R. / **Parallel Digital Predistortion Design on Mobile GPU and Embedded Multicore CPU for Mobile Transmitters**. In: Journal of Signal Processing Systems. 2017 ; Vol. 89, No. 3. pp. 417-430.

Wang, Lai Huei ; Shen, Chung Ching ; Wu, Shenpei ; Bhattacharyya, Shuvra S. / **Parameterized scheduling of topological patterns in signal processing dataflow graphs**. In: Journal of Signal Processing Systems. 2013 ; Vol. 71, No. 3. pp. 275-286.

Emmert-Streib, Frank ; Glazko, Galina V. / **Pathway analysis of expression data : Deciphering functional building blocks of complex diseases**. In: PLoS Computational Biology. 2011 ; Vol. 7, No. 5.

Kreutzer, Joose ; Viehrig, Marlitt ; Pölonen, Risto Pekka ; Zhao, Feihu ; Ojala, Marisa ; Aalto-Setälä, Katriina ; Kallio, Pasi. / **Pneumatic unidirectional cell stretching device for mechanobiological studies of cardiomyocytes**. In: BIOMECHANICS AND MODELING IN MECHANOBIOLOGY. 2019.

Mäki-Jaskari, Matti A. ; Rantala, Tapio T. / **Possible structures of nonstoichiometric tin oxide : The composition Sn₂O₃**. In: Modelling and Simulation in Materials Science and Engineering. 2004 ; Vol. 12, No. 1. pp. 33-41.

Hussain, Waqar ; Hoffmann, Henry ; Ahonen, Tapani ; Nurmi, Jari. / **Power Mitigation by Performance Equalization in a Heterogeneous Reconfigurable Multicore Architecture**. In: Journal of Signal Processing Systems. 2017 ; Vol. 87, No. 3. pp. 287-297.

Khodamoradi, Aram ; Liu, Guangyuan ; Mattavelli, Paolo ; Messo, Tuomas ; Abedini, Hossein. / **PRBS-based loop gain identification and output impedance shaping in DC microgrid power converters**. In: Mathematics and Computers in Simulation. 2020.

Marinho, Paulo ; Vermandel, Maximilien ; Bourgeois, Philippe ; Lejeune, Jean Paul ; Mordon, Serge ; Thines, Laurent. / **Preoperative simulation for the planning of microsurgical clipping of intracranial aneurysms**. In: SIMULATION IN HEALTHCARE. 2014 ; Vol. 9, No. 6. pp. 370-376.

Dehmer, Matthias ; Chen, Zengqiang ; Emmert-Streib, Frank ; Shi, Yongtang ; Tripathi, Shailesh ; Musa, Aliyu ; Mowshowitz, Abbe. / **Properties of graph distance measures by means of discrete inequalities**. In: Applied Mathematical Modelling. 2018 ; Vol. 59. pp. 739-749.

Safdari, Hadiseh ; Cherstvy, Andrey G. ; Checkkin, Aleksei V. ; Thiel, Felix ; Sokolov, Igor M. ; Metzler, Ralf. / **Quantifying the non-ergodicity of scaled Brownian motion**. In: Journal of Physics A: Mathematical and Theoretical. 2015 ; Vol. 48, No. 37.

Boutellier, Jani ; Lucarz, Christophe ; Lafond, Sébastien ; Gomez, Victor Martin ; Mattavelli, Marco. / **Quasi-static scheduling of CAL actor networks for reconfigurable video coding**. In: Journal of Signal Processing Systems. 2011 ; Vol. 63, No. 2. pp. 191-202.

Javanainen, Matti ; Enkavi, Giray ; Guixà-González, Ramon ; Kulig, Waldemar ; Martinez-Seara, Hector ; Levental, Ilya ; Vattulainen, Ilpo. / **Reduced level of docosahexaenoic acid shifts GPCR neuroreceptors to less ordered membrane regions**. In: PLoS Computational Biology. 2019 ; Vol. 15, No. 5.

Palyulin, Vladimir V. ; Checkkin, Aleksei V. ; Klages, Rainer ; Metzler, Ralf. / **Search reliability and search efficiency of combined Lévy-Brownian motion : Long relocations mingled with thorough local exploration**. In: Journal of Physics A: Mathematical and Theoretical. 2016 ; Vol. 49, No. 39.

Rodrigues, Paulo C. ; de Carvalho, Miguel. / **Spectral modeling of time series with missing data**. In: Applied Mathematical Modelling. 2013 ; Vol. 37, No. 7. pp. 4676-4684.

Altay, Gökmen ; Emmert-Streib, Frank. / **Structural influence of gene networks on their inference : Analysis of C3NET**. In: Biology Direct. 2011 ; Vol. 6.

Hosseini, Seyyed Soheil Sadat ; Jamali, Mohsin M. ; Astola, Jaakko ; Gorsevski, Peter V. / **Target tracking via combination of particle filter and optimisation techniques**. In: International Journal of Mathematical Modelling and Numerical Optimization. 2016 ; Vol. 7, No. 2. pp. 212-229.

Yoo, Seong Ki ; Cotton, Simon L. ; Sofotasios, Paschalis C. ; Matthaiou, Michail ; Valkama, Mikko ; Karagiannidis, George K. / **The Fisher-Snedecor F Distribution : A Simple and Accurate Composite Fading Model**. In: IEEE Communications Letters. 2017 ; Vol. 21, No. 7. pp. 1661-1664.

Sane, Nimish ; Kee, Hojin ; Seetharaman, Gunasekaran ; Bhattacharyya, Shuvra S. / **Topological patterns for scalable representation and analysis of dataflow graphs**. In: Journal of Signal Processing Systems. 2011 ; Vol. 65, No. 2. pp. 229-244.

Hautala, Ilkka ; Boutellier, Jani ; Nyländen, Teemu ; Silvén, Olli. / **Toward Efficient Execution of RVC-CAL Dataflow Programs on Multicore Platforms**. In: Journal of Signal Processing Systems. 2018 ; Vol. 90, No. 11. pp. 1507-1517.

Boutellier, Jani ; Silvén, Olli. / **Towards generic embedded multiprocessing for RVC-CAL dataflow programs**. In: Journal of Signal Processing Systems. 2013 ; Vol. 73, No. 2. pp. 137-142.

Matos Simoes, Ricardo de ; Dalleau, Sabine ; Williamson, Kate E. ; Emmert-Streib, Frank. / **Urothelial cancer gene regulatory networks inferred from large-scale RNAseq, Bead and Oligo gene expression data**. In: BMC Systems Biology. 2015 ; Vol. 9.

Taylor, Jonathon ; Biddulph, Phillip ; Davies, Michael ; Ridley, Ian ; Mavrogianni, Anna ; Oikonomou, Eleni ; Lai, Ka Man. / **Using building simulation to model the drying of flooded building archetypes**. In: JOURNAL OF BUILDING PERFORMANCE SIMULATION. 2013 ; Vol. 6, No. 2. pp. 119-140.

Ni, Xingyang ; Huttunen, Heikki. / **Vehicle Attribute Recognition by Appearance : Computer Vision Methods for Vehicle Type, Make and Model Classification**. In: Journal of Signal Processing Systems. 2020.

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. / **Very sharp diffraction peak in nonglass-forming liquid with the formation of distorted tetraclusters**. In: NPG ASIA MATERIALS. 2020 ; Vol. 12, No. 1.

Koivisto, Antti J. ; Aromaa, Mikko ; Koponen, Ismo K. ; Fransman, Wouter ; Jensen, Keld A. ; Mäkelä, Jyrki M. ; Hämeri, Kaarle J. / **Workplace performance of a loose-fitting powered air purifying respirator during nanoparticle synthesis**. In: Journal of Nanoparticle Research. 2015 ; Vol. 17, No. 4.

Korhonen, H. M E ; Heikkilä, Jussi ; Törnwall, Jon M. / **A simulation case study of production planning and control in printed wiring board manufacturing**. In: Winter Simulation Conference Proceedings. 2001 ; Vol. 2. pp. 844-847.

Ahtiluoto, Matti ; Ellman, Asko ; Coatanea, Eric. / **Model for evaluating additive manufacturing feasibility in end-use production**. In: Proceedings of the International Conference on Engineering Design, ICED. 2019 ; Vol. 1, No. 1. pp. 799-808.

Ellervee, Peeter ; Nurmi, Jari. / **Guest Editorial : Implementation Issues in System-on-Chip**. In: Journal of Signal Processing Systems. 2017 ; Vol. 87, No. 3. pp. 269-270.

Pohjolainen, Seppo ; Suutala, Antti. / **Acoustic Modelling**. Mathematical Modelling. editor / Seppo Pohjolainen. Switzerland : Springer, 2016. pp. 185-205

Ylinen, Antti ; Mäkinen, Jari ; Kouhia, Reijo. / **Two models for hydraulic cylinders in flexible multibody simulations**. Computational Methods for Solids and Fluids: Multiscale Analysis, Probability Aspects and Model Reduction. Springer, 2016. pp. 463-493 (Computational Methods in Applied Sciences).

Georgiev, Georgi Yordanov ; Aho, Tommi ; Kesseli, Juha ; Yli-Harja, Olli ; Kauffman, Stuart A. / **Action and power efficiency in self-organization : The case for growth efficiency as a cellular objective in escherichia coli**. Evolution, Development and Complexity - Multiscale Evolutionary Models of Complex Adaptive Systems. editor / Claudio L. Flores Martinez ; Georgi Yordanov Georgiev ; John M. Smart ; Michael E. Price. Springer, 2019. pp. 229-244 (Springer Proceedings in Complexity).

Coatanea, Eric ; Ritola, Tuomas ; Tumer, Irem Y. ; Jensen, David. / **A framework for building behavioral models for design-stage failure identification using dimensional analysis**. Proceedings of the ASME Design Engineering Technical Conference. Vol. 5 AMER SOC MECHANICAL ENGINEERS, 2010. pp. 591-601

Canelas, Pedro ; Martins, Leonardo ; Mora, André ; S. Ribeiro, Andre ; Fonseca, José. / **An image generator platform to improve cell tracking algorithms simulation of objects of various morphologies, kinetics and clustering**. SIMULTECH 2016 - Proceedings of the 6th International Conference on Simulation and Modeling Methodologies, Technologies and Applications. SCITEPRESS, 2016. pp. 44-55

Saintsing, Christy D. ; Cook, Benjamin S. ; Tentzeris, Manos M. / **An origami inspired reconfigurable spiral antenna**. 38th Mechanisms and Robotics Conference. Vol. 5B The American Society of Mechanical Engineers ASME, 2014.

Lavazza, Luigi ; Morasca, Sandro ; Taibi, Davide ; Tosi, Davide. / **Applying SCRUM in an OSS development process : An empirical evaluation**. Agile Processes in Software Engineering and Extreme Programming - 11th International Conference, XP 2010, Proceedings. Vol. 48 LNBIP Springer Verlag, 2010. pp. 147-159 (Lecture Notes in Business Information Processing).

Borgianni, Y. ; Lenarduzzi, V. ; Rotini, F. ; Taibi, D. / **Bringing stimulated ideation in a web environment : Students' evaluations of a basic software release**. ICDC 2018 - 5th International Conference on Design Creativity, Conference Proceedings. editor / Elies Dekoninck ; Andrew Wodehouse ; Chris Snider ; Georgi Georgiev ; Gaetano Cascini. DESIGN SOCIETY, 2018. (Proceedings of the International Conference on Engineering Design, ICED).

Still, Kaisa ; Seppänen, Marko ; Korhonen, Heidi ; Valkokari, Katri ; Suominen, Arho ; Kumpulainen, Miika. / **Business Model Innovation of Startups Developing Multisided Digital Platforms**. Proceedings - 2017 IEEE 19th Conference on Business Informatics, CBI 2017. IEEE, 2017. pp. 70-75

Lu, Wenhui ; Zhang, Zheyang ; Nummenmaa, Jyrki. / **Characterizing trustworthy digital rights exporting**. Perspectives in Business Informatics Research - 11th International Conference, BIR 2012, Proceedings. Vol. 128 LNBIP Springer Verlag, 2012. pp. 85-95 (Lecture Notes in Business Information Processing).

Taivalsaari, Antero ; Mikkonen, Tommi ; Pautasso, Cesare ; Systä, Kari. / **Client-Side Cornucopia : Comparing the Built-In Application Architecture Models in the Web Browser**. Web Information Systems and Technologies - 14th International Conference, WEBIST 2018, Revised Selected Papers. editor / María José Escalona ; Francisco Domínguez Mayo ; Tim A. Majchrzak ; Valérie Monfort. Springer, 2019. pp. 1-24 (Lecture Notes in Business Information Processing).

Laakom, Firas ; Raitoharju, Jenni ; Iosifidis, Alexandros ; Nikkanen, Jarno ; Gabbouj, Moncef. / **Color Constancy Convolutional Autoencoder**. 2019 IEEE Symposium Series on Computational Intelligence, SSCI 2019. IEEE, 2019. pp. 1085-1090

Taibi, Davide ; Lenarduzzi, Valentina ; Janes, Andrea ; Liukkunen, Kari ; Ahmad, Muhammad Ovais. / **Comparing requirements decomposition within the Scrum, Scrum with Kanban, XP, and Banana development processes**. Agile Processes in Software Engineering and Extreme Programming - 18th International Conference, XP 2017, Proceedings. Springer Verlag, 2017. pp. 68-83 (Lecture Notes in Business Information Processing).

Karamanakos, Petros ; Geyer, Tobias ; Kennel, Ralph. / **Computationally efficient optimization algorithms for model predictive control of linear systems with integer inputs**. 2015 54th IEEE Conference on Decision and Control, CDC 2015. 2015. pp. 3663-3668

Ortombina, L. ; Liegmann, E. ; Karamanakos, P. ; Tinazzi, F. ; Zigliotto, M. ; Kennel, R. / **Constrained Long-Horizon Direct Model Predictive Control for Synchronous Reluctance Motor Drives**. 2018 IEEE 19th Workshop on Control and Modeling for Power Electronics, COMPEL 2018. IEEE, 2018.

Puonti, Mikko ; Raitalaakso, Timo. / **Data Vault Mappings to Dimensional Model Using Schema Matching**. Research and Practical Issues of Enterprise Information Systems - 13th IFIP WG 8.9 International Conference, CONFENIS 2019, Proceedings. editor / Petr Doucek ; Josef Basl ; Antonin Pavlicek ; A Min Tjoa ; Katrin Detter ; Maria Raffai. Springer, 2019. pp. 55-64 (Lecture Notes in Business Information Processing).

Wu, Di ; Coatanea, Eric ; Wang, G. Gary. / **Dimension reduction and decomposition using causal graph and qualitative analysis for aircraft concept design optimization**. 43rd Design Automation Conference. The American Society of Mechanical Engineers ASME, 2017.

Grigore, Vlad ; Hatonen, Jari ; Kyyra, Jorma ; Suntio, Teuvo. / **Dynamics of a buck converter with a constant power load**. PESC 1998 - 29th Annual IEEE Power Electronics Specialists Conference. Institute of Electrical and Electronics Engineers Inc., 1998. pp. 72-78 (PESC Record - IEEE Annual Power Electronics Specialists Conference).

Suominen, Arho ; Hyrynsalmi, Sami ; Seppänen, Marko. / **Ecosystems Here, There, and Everywhere — A Barometrical Analysis of the Roots of 'Software Ecosystem'**. Software Business: 7th International Conference, ICSOB 2016, Ljubljana, Slovenia, June 13-14, 2016, Proceedings. Springer Verlag, 2016. pp. 32-46 (Lecture Notes in Business Information Processing).

Suonsyrjä, Sampo. / **Eeny, Meeny, Miny, Mo... : A multiple case study on selecting a technique for user-interaction data collecting.** Agile Processes in Software Engineering and Extreme Programming - 18th International Conference, XP 2017, Proceedings. Springer Verlag, 2017. pp. 52-67 (Lecture Notes in Business Information Processing).

Nix, Emily ; Das, Payel ; Taylor, Jonathon ; Davies, Michael. / **Employing a multi-Objective robust optimisation method for healthy and low-energy dwelling design in Delhi, India.** Proceedings of the 2014 Building Simulation and Optimization Conference. 2015. pp. 2093-2100

Yoo, Seong Ki ; Cotton, Simon L. ; Sofotasios, Paschalis C. ; Muhaidat, Sami ; Badarneh, Osamah S. ; Karagiannidis, George K. / **Energy Detection-Based Spectrum Sensing over Fisher-Snedecor F Fading Channels.** 2018 IEEE Global Communications Conference. IEEE, 2019.

Lenarduzzi, Valentina ; Lunesu, Ilaria ; Matta, Martina ; Taibi, Davide. / **Functional size measures and effort estimation in agile development : A replicated study.** Agile Processes, in Software Engineering, and Extreme Programming - 16th International Conference, XP 2015, Proceedings. Vol. 212 Springer-Verlag Berlin Heidelberg, 2015. pp. 105-116 (Lecture Notes in Business Information Processing).

Coatanéa, Eric ; Nonsiri, Sarayut ; Christophe, Francois ; Mokammel, Faisal. / **Graph based representation and analyses for conceptual stages.** 34th Computers and Information in Engineering Conference. Vol. 1A The American Society of Mechanical Engineers ASME, 2014.

Kovalchukov, Roman ; Moltchanov, Dmitri ; Begishev, Vyacheslav ; Samuylov, Andrey ; Andreev, Sergey ; Koucheryavy, Yevgeni ; Samouylov, Konstantin. / **Improved Session Continuity in 5G NR with Joint Use of Multi-Connectivity and Guard Bandwidth.** 2018 IEEE Global Communications Conference, GLOBECOM 2018. IEEE, 2019.

Humaloja, Jukka-Pekka ; Ali-Löyty, Simo ; Pohjolainen, Seppo ; Hämäläinen, Timo. / **Independent Loops Search in Flow Networks Aiming for Well-Conditioned System of Equations.** Progress in Industrial Mathematics at ECMI 2016. editor / Peregrina Quintela ; Patricia Barral ; Dolores Gómez ; Francisco J. Pena ; Jerónimo Rodríguez ; Pilar Salgado ; Miguel E. Vázquez-Mendéz. Springer International Publishing, 2017. (Mathematics in industry).

Coatanéa, Eric ; Wu, Di ; Tsarkov, Vadim ; Gary Wang, G. ; Modi, Siddhant ; Jafarian, Hesam. / **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.** 38th Computers and Information in Engineering Conference. Vol. 1B-2018 The American Society of Mechanical Engineers ASME, 2018.

Tokola, Henri ; Niemi, Esko ; Väistö, Ville. / **Lean manufacturing methods in simulation literature : Review and association analysis.** 2015 Winter Simulation Conference (WSC). 2016. pp. 2239-2248

Järvi, Antero ; Taajamaa, Ville ; Hyrynsalmi, Sami. / **Lean software startup – an experience report from an entrepreneurial software business course.** Software Business - 6th International Conference, ICSOB 2015, Proceedings. Vol. 210 Springer Verlag, 2015. pp. 230-244 (Lecture Notes in Business Information Processing).

Coatanéa, Eric ; Yannou, Bernard ; Honkala, Sauli ; Lajunen, Antti ; Saarelainen, Tanja ; Makkonen, Petri. / **Measurement theory and dimensional analysis : Methodological impact on the comparison and evaluation process.** 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. pp. 173-182

Hokkanen, Laura ; Kuusinen, Kati ; Väänänen, Kaisa. / **Minimum viable user experience : A framework for supporting product design in startups.** Agile Processes, in Software Engineering, and Extreme Programming: 17th International Conference, XP 2016, Edinburgh, UK, May 24-27, 2016, Proceedings. Springer Verlag, 2016. pp. 66-78 (Lecture Notes in Business Information Processing).

Raitoharju, Jenni ; Meissner, Kristian. / **On Confidences and Their Use in (Semi-)Automatic Multi-Image Taxa Identification .** 2019 IEEE Symposium Series on Computational Intelligence, SSCI 2019. IEEE, 2019. pp. 1338-1343

Rubel, Oleksii ; Lukin, Vladimir ; Egiazarian, Karen. / **On prediction of DCT-based denoising efficiency under spatially correlated noise conditions**. 2016 13th International Conference on Modern Problems of Radio Engineering, Telecommunications and Computer Science (TCSET) . IEEE, 2016. pp. 750-754

Lavazza, Luigi ; Morasca, Sandro ; Taibi, Davide ; Tosi, Davide. / **OP2A : How to improve the quality of the web portal of open source software products**. Web Information Systems and Technologies - 7th International Conference, WEBIST 2011, Revised Selected Papers. Springer Verlag, 2011. pp. 149-162 (Lecture Notes in Business Information Processing).

Lu, Wenhui ; Nummenmaa, Jyrki ; Zhang, Zheyang. / **Passive condition pre-enforcement for rights exporting**. Perspectives in Business Informatics Research - 14th International Conference, BIR 2015, Proceedings. Vol. 229 Springer Verlag, 2015. pp. 241-254 (Lecture Notes in Business Information Processing).

Bakhouya, Mohamed ; Chariete, Abderrahim ; Gaber, Jaafar ; Wack, Maxime ; Niar, Smail ; Coatanea, Eric. / **Performance evaluation of a flow control algorithm for network-on-chip**. Proceedings of the 2012 International Conference on High Performance Computing and Simulation, HPCS 2012. 2012. pp. 281-287

Desnos, Karol ; Pelcat, Maxime ; Nezan, Jean François ; Bhattacharyya, Shuvra S. ; Aridhi, Slaheddine. / **PiMM : Parameterized and interfaced dataflow meta-model for MPSoCs runtime reconfiguration**. Proceedings - 2013 International Conference on Embedded Computer Systems: Architectures, Modeling and Simulation, IC-SAMOS 2013. IEEE COMPUTER SOCIETY PRESS, 2013. pp. 41-48

Lenarduzzi, Valentina ; Stan, Alexandru Cristian ; Taibi, Davide ; Venters, Gustavs ; Windegger, Markus. / **Prioritizing corrective maintenance activities for android applications : An industrial case study on android crash reports**. Software Quality: Methods and Tools for Better Software and Systems - 10th International Conference, SWQD 2018, Proceedings. Springer-Verlag Berlin Heidelberg, 2018. pp. 133-143 (Lecture Notes in Business Information Processing).

López, Miguel Bordallo ; Nieto, Alejandro ; Silvén, Olli ; Bóutellier, Jani ; Vilariño, David López. / **Reconfigurable computing for future vision-capable devices**. Proceedings - 2015 International Conference on Embedded Computer Systems: Architectures, Modeling and Simulation, SAMOS 2015. Institute of Electrical and Electronics Engineers Inc., 2015. pp. 34-41

Nylanden, Teemu ; Boutellier, Jani ; Nikunen, Karri ; Hannuksela, Jari ; Silven, Olli. / **Reconfigurable miniature sensor nodes for condition monitoring**. Proceedings - 2012 International Conference on Embedded Computer Systems: Architectures, Modeling and Simulation, IC-SAMOS 2012. 2012. pp. 113-119

Hyrnsalmi, Sami ; Suominen, Arho ; Mäkilä, Tuomas ; Järvi, Antero ; Knuutila, Timo. / **Revenue models of application developers in android market ecosystem**. Software Business - Third International Conference, ICSOB 2012, Proceedings. Springer Verlag, 2012. pp. 209-222 (Lecture Notes in Business Information Processing).

Neri, Manuela ; Perttu, Leppänen ; Alanen, Mika ; Luscietti, Davide ; Pilotelli, Mariagrazia. / **Safety at chimney-roof penetration : A numerical investigation**. Building Simulation Applications, BSA 2019 - 4th IBPSA-Italy Conference. editor / Giovanni Pernigotto ; Francesco Patuzzi ; Alessandro Prada ; Vincenzo Corrado ; Andrea Gasparella. Free University of Bozen Bolzano, 2020. pp. 123-130 (Building Simulation Applications).

Dumitrescu, M. ; Uusitalo, T. ; Virtanen, H. ; Laakso, A. ; Bardella, P. ; Montrosset, I. / **Simulation of photon-photon resonance enhanced direct modulation bandwidth of DFB lasers**. 16th International Conference on Numerical Simulation of Optoelectronic Devices, NUSOD 2016. IEEE, 2016. pp. 147-148

Virtanen, Heikki ; Uusitalo, Topi ; Dumitrescu, Mihail. / **Simulation studies of DFB laser longitudinal structures for narrow linewidth emission**. 16th International Conference on Numerical Simulation of Optoelectronic Devices, NUSOD 2016. IEEE, 2016. pp. 153-154

Samuylov, A. ; Moltchanov, D. ; Gaidamaka, Yu ; Begishev, V. ; Kovalchukov, R. ; Abaev, P. ; Shorgin, S. / **Sir analysis in square-shaped indoor premises**. Proceedings - 30th European Conference on Modelling and Simulation, ECMS 2016. EUROPEAN COUNCIL FOR MODELLING AND SIMULATION, 2016. pp. 692-697

Fedorov, Sergey ; Orlov, Yurii ; Samuylov, Andrey ; Moltchanov, Dmitri ; Gaidamaka, Yuliya ; Samouylov, Konstantin ; Shorgin, Sergey. / **Sir distribution in D2D environment with non-stationary mobility of users**. Proceedings - 31st European Conference on Modelling and Simulation, ECMS 2017. EUROPEAN COUNCIL FOR MODELLING AND SIMULATION, 2017. pp. 720-725

Ruohonen, Jukka ; Hyrynsalmi, Sami ; Leppänen, Ville. / **Software evolution and time series volatility : An empirical exploration**. 14th International Workshop on Principles of Software Evolution, IWPSE 2015 - Proceedings. Vol. 30-Aug-2015 Institute of Electrical and Electronics Engineers Inc., 2015. pp. 56-65

Ruohonen, Jukka ; Hyrynsalmi, Sami ; Leppänen, Ville. / **Software vulnerability life cycles and the age of software products : An empirical assertion with operating system products**. Advanced Information Systems Engineering Workshops - CAiSE 2016 International Workshops, Proceedings. Springer Verlag, 2016. pp. 207-218 (Lecture Notes in Business Information Processing).

Ponomarenko, Mykola ; Egiazarian, Karen ; Lukin, Vladimir ; Abramova, Victoriya. / **Structural Similarity Index with Predictability of Image Blocks**. 2018 IEEE 17th International Conference on Mathematical Methods in Electromagnetic Theory, MMET 2018 - Proceedings. Vol. 2018-July IEEE COMPUTER SOCIETY PRESS, 2018. pp. 115-118

Salo, Markus ; Pirkkalainen, Henri ; Koskelainen, Tiina. / **Technostress and social networking services : Uncovering strains and their underlying stressors**. Nordic Contributions in IS Research - 8th Scandinavian Conference on Information Systems, SCIS 2017, Proceedings. Springer Verlag, 2017. pp. 41-53 (Lecture Notes in Business Information Processing).

Tauriainen, M. ; Puttonen, J. ; Saari, A. ; Laakso, P. ; Forsblom, K. / **The assessment of constructability : BIM cases**. 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. pp. 55-61

Tauriainen, M. ; Mero, A. K. ; Lemström, A. ; Puttonen, J. ; Saari, A. / **The development of constructability using BIM as an intensifying technology**. eWork and eBusiness in Architecture, Engineering and Construction - Proceedings of the European Conference on Product and Process Modelling 2012, ECPPM 2012. 2012. pp. 713-716

Ogeya, Mbeo Calvince ; Coatanéa, Eric ; Medyna, Galina. / **Theory driven design and real proto typing of biomass pyrolytic stove**. Proceedings of the International Conference on Engineering Design, ICED. Vol. 9 DS75-09 2013. pp. 69-78

Orlov, Yurii ; Zenyuk, Dmitry ; Samuylov, Andrey ; Moltchanov, Dmitri ; Andreev, Sergey ; Romashkova, Oxana ; Gaidamaka, Yuliya ; Samouylov, Konstantin. / **Time-dependent SIR modeling for D2D communications in indoor deployments**. Proceedings - 31st European Conference on Modelling and Simulation, ECMS 2017. EUROPEAN COUNCIL FOR MODELLING AND SIMULATION, 2017. pp. 726-731

Niinimäki, Marko ; Niemi, Tapio ; Martin, Stephen ; Nummenmaa, Jyrki ; Thanisch, Peter. / **Timely report production from WWW data sources**. Workshops on Business Informatics Research, BIR 2011 International Workshops and Doctoral Consortium, Revised Selected Papers. Vol. 106 LNBIP Springer Verlag, 2012. pp. 184-195 (Lecture Notes in Business Information Processing).

Yrjökoski, Katariina ; Helander, Nina ; Jaakkola, Hannu. / **To network or not to network? Analysis of the Finnish software industry-A networking approach**. Software Business: 7th International Conference, ICSOB 2016, Ljubljana, Slovenia, June 13-14, 2016, Proceedings. Springer Verlag, 2016. pp. 124-134 (Lecture Notes in Business Information Processing).

Taibi, Davide ; Janes, Andrea ; Lenarduzzi, Valentina. / **Towards a lean approach to reduce code smells injection : An empirical study**. Agile Processes in Software Engineering and Extreme Programming - 17th International Conference, XP 2016, Proceedings. Springer Verlag, 2016. (Lecture Notes in Business Information Processing).

Mokammel, Faisal ; Coatanea, Eric ; Christophe, Francois ; Ba Khouya, Mohamed ; Medyna, Galina. / **Towards an approach for evaluating the quality of requirements**. 33rd Computers and Information in Engineering Conference. Vol. 2 B American Society of Mechanical Engineers, 2013.

Halonen, Aki ; Hyrynsalmi, Sami ; Kimppa, Kai K. ; Knuutila, Timo ; Smed, Jouni ; Hakonen, Harri. / **Towards usability heuristics for games utilizing speech recognition**. 4th Asian Conference on Intelligent Games and Simulation, GAME-ON ASIA 2012 - 4th Asian Simulation Technology Conference, ASTEC 2012. EUROSIS, 2012. pp. 51-55

Uusitalo, Topi ; Virtanen, Heikki ; Dumitrescu, Mihail. / **Transverse structure optimization of laterally-coupled ridge waveguide DFB lasers**. 16th International Conference on Numerical Simulation of Optoelectronic Devices, NUSOD 2016. IEEE, 2016. pp. 79-80

Thanisch, Peter ; Niemi, Tapio ; Niinimäki, Marko ; Nummenmaa, Jyrki. / **Using the entity-attribute-value model for olap cube construction**. Perspectives in Business Informatics Research - 10th International Conference, BIR 2011, Proceedings. Vol. 90 LNBIP Springer Verlag, 2011. pp. 59-72 (Lecture Notes in Business Information Processing).

Hokkanen, Laura ; Väänänen-Vainio-Mattila, Kaisa. / **UX work in startups : Current practices and future needs**. 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. pp. 81-92 (Lecture Notes in Business Information Processing).

Hyrynsalmi, Sami ; Seppänen, Marko ; Nokkala, Tiina ; Suominen, Arho ; Järvi, Antero. / **Wealthy, healthy and/or happy —what does 'ecosystem health' stand for?**. 6th International Conference on Software Business, ICSOB 2015; Braga; Portugal; 10 June 2015 through 12 June 2015. Vol. 210 Springer Verlag, 2015. pp. 272-287 (Lecture Notes in Business Information Processing).

Acimovic, Jugoslava. / **Neural networks, cell cultures and some older work on data analysis**. Paper presented at Okinawa Computational Neuroscience Course 2009, Japan.