

Nanni L, Maguolo G, Paci M. **Data augmentation approaches for improving animal audio classification.** *Ecological Informatics*. 2020;57. 101084. <https://doi.org/10.1016/j.ecoinf.2020.101084>

Koyama C, Tahara S, Kohara S, Onodera Y, Småbråten DR, Selbach SM et al. **Very sharp diffraction peak in nonglass-forming liquid with the formation of distorted tetraclusters.** *NPG ASIA MATERIALS*. 2020;12(1). 43. <https://doi.org/10.1038/s41427-020-0220-0>

Khodamoradi A, Liu G, Mattavelli P, Messo T, Abedini H. **PRBS-based loop gain identification and output impedance shaping in DC microgrid power converters.** *Mathematics and Computers in Simulation*. 2020. <https://doi.org/10.1016/j.matcom.2020.04.017>

Ni X, Huttunen H. **Vehicle Attribute Recognition by Appearance: Computer Vision Methods for Vehicle Type, Make and Model Classification.** *Journal of Signal Processing Systems*. 2020. <https://doi.org/10.1007/s11265-020-01567-6>

Elfgen S, Rasilo P, Hameyer K. **Hysteresis and eddy-current losses in electrical steel utilising edge degradation due to cutting effects.** *International Journal of Numerical Modelling: Electronic Networks, Devices and Fields*. 2020. <https://doi.org/10.1002/jnm.2781>

Räsänen O, Seshadri S, Karadayi J, Riebling E, Bunce J, Cristia A et al. **Automatic word count estimation from daylong child-centered recordings in various language environments using language-independent syllabification of speech.** *Speech Communication*. 2019 Oct 1;113:63-80. <https://doi.org/10.1016/j.specom.2019.08.005>

Kreutzer J, Viehrig M, Pölönen RP, Zhao F, Ojala M, Aalto-Setälä K et al. **Pneumatic unidirectional cell stretching device for mechanobiological studies of cardiomyocytes.** *BIOMECHANICS AND MODELING IN MECHANOBIOLOGY*. 2019 Aug 23. <https://doi.org/10.1007/s10237-019-01211-8>

Javanainen M, Enkavi G, Guixà-González R, Kulig W, Martinez-Seara H, Levental I et al. **Reduced level of docosahexaenoic acid shifts GPCR neuroreceptors to less ordered membrane regions.** *PLoS Computational Biology*. 2019 May 1;15(5). e1007033. <https://doi.org/10.1371/journal.pcbi.1007033>

Al-Ars Z, van der Vlugt S, Jääskeläinen P, van der Linden F. **ALMARVI System Solution for Image and Video Processing in Healthcare, Surveillance and Mobile Applications.** *Journal of Signal Processing Systems*. 2019 Jan;91(1):1-7. <https://doi.org/10.1007/s11265-018-1423-2>

Stockrahm A, Lahtinen V, Kangas JJJ, Kotiuga PR. **Cuts for 3-D magnetic scalar potentials: Visualizing unintuitive surfaces arising from trivial knots.** *Computers and Mathematics with Applications*. 2019. <https://doi.org/10.1016/j.camwa.2019.05.023>

Pascual Campo P, Lampu V, Meirhaeghe A, Boutellier J, Anttila L, Valkama M. **Digital Predistortion for 5G Small Cell: GPU Implementation and RF Measurements.** *Journal of Signal Processing Systems*. 2019. <https://doi.org/10.1007/s11265-019-01502-4>

Orelma H. **Continuum approach to high-cycle fatigue. The finite life-time case with stochastic stress history.** *Vestnik Samarskogo Gosudarstvennogo Tekhnicheskogo Universiteta, Seriya Fiziko-Matematicheskie Nauki*. 2019;23(3):452-463. <https://doi.org/10.14498/vsgtu1705>

Ahtiluoto M, Ellman A, Coatanea E. **Model for evaluating additive manufacturing feasibility in end-use production.** *Proceedings of the International Conference on Engineering Design, ICED*. 2019;1(1):799-808. <https://doi.org/10.1017/dsi.2019.84>

Raunio J-P, Ritala R. **Active scanner control on paper machines.** *Journal of Process Control*. 2018 Dec 1;72:74-90. <https://doi.org/10.1016/j.jprocont.2018.09.012>

Ottosen NS, Ristinmaa M, Kouhia R. **Enhanced multiaxial fatigue criterion that considers stress gradient effects.** International Journal of Fatigue. 2018 Nov 1;116:128-139. <https://doi.org/10.1016/j.ijfatigue.2018.05.024>

Hautala I, Boutellier J, Nyländen T, Silvén O. **Toward Efficient Execution of RVC-CAL Dataflow Programs on Multicore Platforms.** Journal of Signal Processing Systems. 2018 Nov;90(11):1507-1517. <https://doi.org/10.1007/s11265-018-1339-x>

Pantsar T, Rissanen S, Dauch D, Laitinen T, Vattulainen I, Poso A. **Assessment of mutation probabilities of KRAS G12 missense mutants and their long-timescale dynamics by atomistic molecular simulations and Markov state modeling.** PLoS Computational Biology. 2018 Sep 10;14(9). e1006458. <https://doi.org/10.1371/journal.pcbi.1006458>

Ugalde-Loo CE, Acha E, Licéaga-Castro E. **Analysis of the damping characteristics of two power electronics-based devices using 'individual channel analysis and design'.** Applied Mathematical Modelling. 2018 Jul 1;59:527-545. <https://doi.org/10.1016/j.apm.2018.02.008>

Dehmer M, Chen Z, Emmert-Streib F, Shi Y, Tripathi S, Musa A et al. **Properties of graph distance measures by means of discrete inequalities.** Applied Mathematical Modelling. 2018 Jul 1;59:739-749. <https://doi.org/10.1016/j.apm.2018.01.027>

Krogerus T, Hyvönen M, Huhtala K. **Analysis of common rail pressure signal of dual-fuel large industrial engine for identification of injection duration of pilot diesel injectors.** Fuel. 2018 Mar;216:1-9. <https://doi.org/10.1016/j.fuel.2017.11.152>

Järvinen H, Honkanen M, Järvenpää M, Peura P. **Effect of paint baking treatment on the properties of press hardened boron steels.** Journal of Materials Processing Technology. 2018;252:90-104. <https://doi.org/10.1016/j.jmatprotec.2017.08.027>

Wu J, Blattner T, Keyrouz W, Bhattacharyya SS. **Model-Based Dynamic Scheduling for Multicore Signal Processing.** Journal of Signal Processing Systems. 2018;1-14. <https://doi.org/10.1007/s11265-018-1412-5>

Enkavi G, Mikkolainen H, Güngör B, Ikonen E, Vattulainen I. **Concerted regulation of npc2 binding to endosomal/lysosomal membranes by bis(monoacylglycerol)phosphate and sphingomyelin.** PLoS Computational Biology. 2017 Oct 1;13(10). e1005831. <https://doi.org/10.1371/journal.pcbi.1005831>

Vuorio J, Vattulainen I, Martinez-Seara H. **Atomistic fingerprint of hyaluronan-CD44 binding.** PLoS Computational Biology. 2017 Jul 1;13(7). e1005663. <https://doi.org/10.1371/journal.pcbi.1005663>

Yoo SK, Cotton SL, Sofotasios PC, Matthaiou M, Valkama M, Karagiannidis GK. **The Fisher-Snedecor F Distribution: A Simple and Accurate Composite Fading Model.** IEEE Communications Letters. 2017 Jul 1;21(7):1661-1664. <https://doi.org/10.1109/LCOMM.2017.2687438>

Hussain W, Hoffmann H, Ahonen T, Nurmi J. **Power Mitigation by Performance Equalization in a Heterogeneous Reconfigurable Multicore Architecture.** Journal of Signal Processing Systems. 2017 Jun;87(3):287-297. <https://doi.org/10.1007/s11265-016-1142-5>

Barford L, Bhattacharyya SS, Liu Y. **Data Flow Algorithms for Processors with Vector Extensions: Handling Actors With Internal State.** Journal of Signal Processing Systems. 2017;87(1):21-31. <https://doi.org/10.1007/s11265-015-1045-x>

Li K, Ghazi A, Tarver C, Boutellier J, Abdelaziz M, Anttila L et al. **Parallel Digital Predistortion Design on Mobile GPU and Embedded Multicore CPU for Mobile Transmitters.** Journal of Signal Processing Systems. 2017;89(3):417-430. <https://doi.org/10.1007/s11265-017-1233-y>

Kim SC, Bhattacharyya SS. **Implementation of a Multirate Resampler for Multi-carrier Systems on GPUs.** Journal of Signal Processing Systems. 2017;89(3):445-455. <https://doi.org/10.1007/s11265-017-1239-5>

Lindroos M, Laukkanen A, Cailletaud G, Kuokkala V-T. **On the effect of deformation twinning and microstructure to strain hardening of high manganese austenitic steel 3D microstructure aggregates at large strains.** International Journal of Solids and Structures. 2017;125:68-76. <https://doi.org/10.1016/j.ijsolstr.2017.07.015>

Boutellier J, Nyländén T. **Design Flow for GPU and Multicore Execution of Dynamic Dataflow Programs.** Journal of Signal Processing Systems. 2017;89(3):469-478. <https://doi.org/10.1007/s11265-017-1260-8>

Blattner T, Keyrouz W, Bhattacharyya SS, Halem M, Brady M. **A Hybrid Task Graph Scheduler for High Performance Image Processing Workflows.** Journal of Signal Processing Systems. 2017;89(3):457-467. <https://doi.org/10.1007/s11265-017-1262-6>

Symonds P, Taylor J, Chalabi Z, Mavrogianni A, Davies M, Hamilton I et al. **Development of an England-wide indoor overheating and air pollution model using artificial neural networks.** JOURNAL OF BUILDING PERFORMANCE SIMULATION. 2016 Nov 1;9(6):606-619. <https://doi.org/10.1080/19401493.2016.1166265>

Palyulin VV, Chechkin AV, Klages R, Metzler R. **Search reliability and search efficiency of combined Lévy-Brownian motion: Long relocations mingled with thorough local exploration.** Journal of Physics A: Mathematical and Theoretical. 2016 Sep 8;49(39). 394002. <https://doi.org/10.1088/1751-8113/49/39/394002>

Yli-Kaakinen J, Renfors M. **Optimization of Flexible Filter Banks Based on Fast Convolution.** Journal of Signal Processing Systems. 2016 Aug;85(1):101-111. <https://doi.org/10.1007/s11265-015-1004-6>

Korkiakoski S, Brøndsted P, Sarlin E, Saarela O. **Influence of specimen type and reinforcement on measured tension-tension fatigue life of unidirectional GFRP laminates.** International Journal of Fatigue. 2016 Apr 1;85:114-129. <https://doi.org/10.1016/j.ijfatigue.2015.12.008>

Mattila K, Puurtinen T, Hyväluoma J, Surmas R, Myllys M, Turpeinen T et al. **A prospect for computing in porous materials research: Very large fluid flow simulations.** Journal of Computational Science. 2016 Jan 1;12:62-76. <https://doi.org/10.1016/j.jocs.2015.11.013>

Aghababaeetafreshi M, Lehtonen LK, Levanen T, Valkama M, Takala J. **IEEE 802.11ac MIMO Transceiver Baseband Processing on a VLIW Processor.** Journal of Signal Processing Systems. 2016. <https://doi.org/10.1007/s11265-015-1032-2>

Chukhman I, Jiao Y, Salem HB, Bhattacharyya SS. **Instrumentation-Driven Validation of Dataflow Applications.** Journal of Signal Processing Systems. 2016;84(3):383-397. <https://doi.org/10.1007/s11265-015-1073-6>

Sandev T, Iomin A, Kantz H, Metzler R, Chechkin A. **Comb Model with Slow and Ultraslow Diffusion.** Mathematical Modelling of Natural Phenomena. 2016;11(3):18-33. <https://doi.org/10.1051/mmnp/201611302>

Hosseini SSS, Jamali MM, Astola J, Gorsevski PV. **Target tracking via combination of particle filter and optimisation techniques.** International Journal of Mathematical Modelling and Numerical Optimization. 2016;7(2):212-229. <https://doi.org/10.1504/IJMMNO.2016.077068>

Bencheikh K, Räsänen E. **Hermitian one-particle density matrix through a semiclassical gradient expansion.** Journal of Physics A: Mathematical and Theoretical. 2015 Dec 9;49(1). 015205. <https://doi.org/10.1088/1751-8113/49/1/015205>

Safdari H, Cherstvy AG, Chechkin AV, Thiel F, Sokolov IM, Metzler R. **Quantifying the non-ergodicity of scaled Brownian motion.** Journal of Physics A: Mathematical and Theoretical. 2015 Sep 18;48(37). 375002. <https://doi.org/10.1088/1751-8113/48/37/375002>

Levin M, Rojas E, Vanhala E, Vippola M, Liguori B, Kling KI et al. **Influence of relative humidity and physical load during storage on dustiness of inorganic nanomaterials: implications for testing and risk assessment.** Journal of Nanoparticle Research. 2015 Aug 14;17(8). 337. <https://doi.org/10.1007/s11051-015-3139-6>

Krüsemann H, Godec A, Metzler R. **Ageing first passage time density in continuous time random walks and quenched energy landscapes.** Journal of Physics A: Mathematical and Theoretical. 2015 Jul 17;48(28). 285001. <https://doi.org/10.1088/1751-8113/48/28/285001>

Matos Simoes RD, Dalleau S, Williamson KE, Emmert-Streib F. **Urothelial cancer gene regulatory networks inferred from large-scale RNAseq, Bead and Oligo gene expression data.** BMC Systems Biology. 2015 May 14;9. 21. <https://doi.org/10.1186/s12918-015-0165-z>

Koivisto AJ, Aromaa M, Koponen IK, Fransman W, Jensen KA, Mäkelä JM et al. **Workplace performance of a loose-fitting powered air purifying respirator during nanoparticle synthesis.** Journal of Nanoparticle Research. 2015 Apr 9;17(4). <https://doi.org/10.1007/s11051-015-2990-9>

Blavatska V, Metzler R. **Conformational properties of complex polymers: Rosette versus star-like structures.** Journal of Physics A: Mathematical and Theoretical. 2015 Apr 7;48(13). 135001. <https://doi.org/10.1088/1751-8113/48/13/135001>

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.** International Journal on Interactive Design and Manufacturing. 2015 Mar 22;9(4):325-338. <https://doi.org/10.1007/s12008-015-0270-7>

Pertilä P, Nikunen J. **Distant speech separation using predicted time-frequency masks from spatial features.** Speech Communication. 2015;68:97-106. <https://doi.org/10.1016/j.specom.2015.01.006>

Takalo R, Hytti H, Ihalainen H, Sohlberg A. **Adaptive autoregressive model for reduction of noise in SPECT.** Computational and Mathematical Methods in Medicine. 2015;2015. 494691. <https://doi.org/10.1155/2015/494691>

Marinho P, Vermandel M, Bourgeois P, Lejeune JP, Mordon S, Thines L. **Preoperative simulation for the planning of microsurgical clipping of intracranial aneurysms.** SIMULATION IN HEALTHCARE. 2014 Dec 20;9(6):370-376. <https://doi.org/10.1097/SIH.0000000000000056>

Boutellier J, Silvén O. **Towards generic embedded multiprocessing for RVC-CAL dataflow programs.** Journal of Signal Processing Systems. 2013 Nov;73(2):137-142. <https://doi.org/10.1007/s11265-013-0737-3>

Rodrigues PC, de Carvalho M. **Spectral modeling of time series with missing data.** Applied Mathematical Modelling. 2013 Apr 1;37(7):4676-4684. <https://doi.org/10.1016/j.apm.2012.09.040>

Taylor J, Biddulph P, Davies M, Ridley I, Mavrogianni A, Oikonomou E et al. **Using building simulation to model the drying of flooded building archetypes.** JOURNAL OF BUILDING PERFORMANCE SIMULATION. 2013 Mar 1;6(2):119-140. <https://doi.org/10.1080/19401493.2012.703243>

Zaki GF, Plishker W, Bhattacharyya SS, Clancy C, Kuykendall J. **Integration of dataflow-based heterogeneous multiprocessor scheduling techniques in GNU radio.** Journal of Signal Processing Systems. 2013 Feb;70(2):177-191. <https://doi.org/10.1007/s11265-012-0696-0>

Boutellier J, Raulet M, Silvén O. **Automatic hierarchical discovery of quasi-static schedules of RVC-CAL dataflow programs.** Journal of Signal Processing Systems. 2013;71(1):35-40. <https://doi.org/10.1007/s11265-012-0676-4>

Wang LH, Shen CC, Wu S, Bhattacharyya SS. **Parameterized scheduling of topological patterns in signal processing dataflow graphs.** Journal of Signal Processing Systems. 2013;71(3):275-286. <https://doi.org/10.1007/s11265-012-0719-x>

Emmert-Streib F, Tripathi S, Matos Simoes RD. **Harnessing the complexity of gene expression data from cancer: From single gene to structural pathway methods.** *Biology Direct.* 2012 Dec 10;7. 44. <https://doi.org/10.1186/1745-6150-7-44>

Kouhia R, Tüma M, Mäkinen J, Fedoroff A, Marjamäki H. **Implementation of a direct procedure for critical point computations using preconditioned iterative solvers.** *Computers & Structures.* 2012 Oct;108-109:110-117. <https://doi.org/10.1016/j.compstruc.2012.02.009>

Kalimeri M, Constantoudis V, Papadimitriou C, Karamanos K, Diakonos FK, Papageorgiou H. **Entropy analysis of word-length series of natural language texts: Effects of text language and genre.** *INTERNATIONAL JOURNAL OF BIFURCATION AND CHAOS.* 2012 Sep;22(9). 1250223. <https://doi.org/10.1142/S0218127412502239>

de Matos Simoes R, Tripathi S, Emmert-Streib F. **Organizational structure and the periphery of the gene regulatory network in B-cell lymphoma.** *BMC Systems Biology.* 2012 May 14;6. 38. <https://doi.org/10.1186/1752-0509-6-38>

Pereira DG, Rodrigues PC, Mejza S, Mexia JT. **A comparison between joint regression analysis and the AMMI model: A case study with barley.** *JOURNAL OF STATISTICAL COMPUTATION AND SIMULATION.* 2012 Feb;82(2):193-207. <https://doi.org/10.1080/00949655.2011.615839>

Min J, Xiang Z, Zhiming Z, Tentzeris MM. **A hybrid optimization grey model based on segmented gra and multi-strategy contest for short-term power load forecasting.** *JOURNAL OF GREY SYSTEM.* 2012;24(1):15-28.

Kee H, Shen CC, Bhattacharyya SS, Wong I, Rao Y, Kornerup J. **Mapping parameterized cyclo-static dataflow graphs onto configurable hardware.** *Journal of Signal Processing Systems.* 2012;66(3):285-301. <https://doi.org/10.1007/s11265-011-0599-5>

Altay G, Emmert-Streib F. **Structural influence of gene networks on their inference: Analysis of C3NET.** *Biology Direct.* 2011 Jun 22;6. 31. <https://doi.org/10.1186/1745-6150-6-31>

Emmert-Streib F, Glazko GV. **Pathway analysis of expression data: Deciphering functional building blocks of complex diseases.** *PLoS Computational Biology.* 2011 May;7(5). e1002053. <https://doi.org/10.1371/journal.pcbi.1002053>

Emmert-Streib F, Dehmer M. **Networks for systems biology: Conceptual connection of data and function.** *IET Systems Biology.* 2011 May;5(3):185-207. <https://doi.org/10.1049/iet-syb.2010.0025>

Bhattacharyya SS, Eker J, Janneck JW, Lucarz C, Mattavelli M, Raulet M. **Overview of the MPEG reconfigurable video coding framework.** *Journal of Signal Processing Systems.* 2011 May;63(2):251-263. <https://doi.org/10.1007/s11265-009-0399-3>

Boutellier J, Lucarz C, Lafond S, Gomez VM, Mattavelli M. **Quasi-static scheduling of CAL actor networks for reconfigurable video coding.** *Journal of Signal Processing Systems.* 2011 May;63(2):191-202. <https://doi.org/10.1007/s11265-009-0389-5>

Gu R, Janneck JW, Raulet M, Bhattacharyya SS. **Exploiting statically schedulable regions in dataflow programs.** *Journal of Signal Processing Systems.* 2011 Apr;63(1):129-142. <https://doi.org/10.1007/s11265-009-0445-1>

Sane N, Kee H, Seetharaman G, Bhattacharyya SS. **Topological patterns for scalable representation and analysis of dataflow graphs.** *Journal of Signal Processing Systems.* 2011;65(2):229-244. <https://doi.org/10.1007/s11265-011-0610-1>

Altay G, Emmert-Streib F. **Inferring the conservative causal core of gene regulatory networks.** *BMC Systems Biology.* 2010 Sep 28;4. 132. <https://doi.org/10.1186/1752-0509-4-132>

Emmert-Streib F, Altay G. **Local network-based measures to assess the inferability of different regulatory networks.** IET Systems Biology. 2010 Jul;4(4):277-288. ISBEAT000004000004000277000001. <https://doi.org/10.1049/iet-syb.2010.0028>

Emmert-Streib F, Dehmer M. **Hierarchical coordination of periodic genes in the cell cycle of *Saccharomyces cerevisiae*.** BMC Systems Biology. 2009 Jul 20;3: 76. <https://doi.org/10.1186/1752-0509-3-76>

Emmert-Streib F, Dehmer M. **Information processing in the transcriptional regulatory network of yeast: Functional robustness.** BMC Systems Biology. 2009 Mar 19;3: 35. <https://doi.org/10.1186/1752-0509-3-35>

Emmert-Streib F. **Algorithmic computation of knot polynomials of secondary structure elements of proteins.** Journal of Computational Biology. 2006 Oct 1;13(8):1503-1512. <https://doi.org/10.1089/cmb.2006.13.1503>

Mäki-Jaskari MA, Rantala TT. **Possible structures of nonstoichiometric tin oxide: The composition Sn<sub>2</sub>O<sub>3</sub>.** Modelling and Simulation in Materials Science and Engineering. 2004 Jan;12(1):33-41. <https://doi.org/10.1088/0965-0393/12/1/004>

Pohjolainen S, Suutala A. **Acoustic Modelling.** In Pohjolainen S, editor, Mathematical Modelling. Switzerland: Springer. 2016. p. 185-205 [https://doi.org/10.1007/978-3-319-27836-0\\_11](https://doi.org/10.1007/978-3-319-27836-0_11)

Ylinen A, Mäkinen J, Kouhia R. **Two models for hydraulic cylinders in flexible multibody simulations.** In Computational Methods for Solids and Fluids: Multiscale Analysis, Probability Aspects and Model Reduction. Springer. 2016. p. 463-493. (Computational Methods in Applied Sciences). [https://doi.org/10.1007/978-3-319-27996-1\\_17](https://doi.org/10.1007/978-3-319-27996-1_17)

Neri M, Perttu L, Alanen M, Luscietti D, Pilotelli M. **Safety at chimney-roof penetration: A numerical investigation.** In Pernigotto G, Patuzzi F, Prada A, Corrado V, Gasparella A, editors, Building Simulation Applications, BSA 2019 - 4th IBPSA-Italy Conference. Free University of Bozen Bolzano. 2020. p. 123-130. (Building Simulation Applications).

Kovalchukov R, Moltchanov D, Begishev V, Samuylov A, Andreev S, Koucheryav Y et al. **Improved Session Continuity in 5G NR with Joint Use of Multi-Connectivity and Guard Bandwidth.** In 2018 IEEE Global Communications Conference, GLOBECOM 2018. IEEE. 2019 <https://doi.org/10.1109/GLOCOM.2018.8647608>

Yoo SK, Cotton SL, Sofotasios PC, Muhaidat S, Badarneh OS, Karagiannidis GK. **Energy Detection-Based Spectrum Sensing over Fisher-Snedecor F Fading Channels.** In 2018 IEEE Global Communications Conference. IEEE. 2019. 8647778 <https://doi.org/10.1109/GLOCOM.2018.8647778>

Puonti M, Raitalaakso T. **Data Vault Mappings to Dimensional Model Using Schema Matching.** In Doucek P, Basl J, Pavlicek A, Tjoa AM, Detter K, Raffai M, editors, Research and Practical Issues of Enterprise Information Systems - 13th IFIP WG 8.9 International Conference, CONFENIS 2019, Proceedings. Springer. 2019. p. 55-64. (Lecture Notes in Business Information Processing). [https://doi.org/10.1007/978-3-030-37632-1\\_5](https://doi.org/10.1007/978-3-030-37632-1_5)

Georgiev GY, Aho T, Kesseli J, Yli-Harja O, Kauffman SA. **Action and power efficiency in self-organization: The case for growth efficiency as a cellular objective in *Escherichia coli*.** In Flores Martinez CL, Georgiev GY, Smart JM, Price ME, editors, Evolution, Development and Complexity - Multiscale Evolutionary Models of Complex Adaptive Systems. Springer. 2019. p. 229-244. (Springer Proceedings in Complexity). [https://doi.org/10.1007/978-3-030-00075-2\\_8](https://doi.org/10.1007/978-3-030-00075-2_8)

Taivalsaari A, Mikkonen T, Pautasso C, Systä K. **Client-Side Cornucopia: Comparing the Built-In Application Architecture Models in the Web Browser.** In Escalona MJ, Domínguez Mayo F, Majchrzak TA, Monfort V, editors, Web Information Systems and Technologies - 14th International Conference, WEBIST 2018, Revised Selected Papers. Springer. 2019. p. 1-24. (Lecture Notes in Business Information Processing). [https://doi.org/10.1007/978-3-030-35330-8\\_1](https://doi.org/10.1007/978-3-030-35330-8_1)

Laakom F, Raitoharju J, Iosifidis A, Nikkanen J, Gabbouj M. **Color Constancy Convolutional Autoencoder.** In 2019 IEEE Symposium Series on Computational Intelligence, SSCI 2019. IEEE. 2019. p. 1085-1090. 9002684 <https://doi.org/10.1109/SSCI44817.2019.9002684>

Raitoharju J, Meissner K. **On Confidences and Their Use in (Semi-)Automatic Multi-Image Taxa Identification**. In 2019 IEEE Symposium Series on Computational Intelligence, SSCI 2019. IEEE. 2019. p. 1338-1343. 9002975 <https://doi.org/10.1109/SSCI44817.2019.9002975>

Ponomarenko M, Egiazarian K, Lukin V, Abramova V. **Structural Similarity Index with Predictability of Image Blocks**. In 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 <https://doi.org/10.1109/MMET.2018.8460285>

Ortombina L, Liegmann E, Karamanakos P, Tinazzi F, Zigliotto M, Kennel R. **Constrained Long-Horizon Direct Model Predictive Control for Synchronous Reluctance Motor Drives**. In 2018 IEEE 19th Workshop on Control and Modeling for Power Electronics, COMPEL 2018. IEEE. 2018. 8460173 <https://doi.org/10.1109/COMPEL.2018.8460173>

Lenarduzzi V, Stan AC, Taibi D, Venters G, Windegger M. **Prioritizing corrective maintenance activities for android applications: An industrial case study on android crash reports**. In 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). [https://doi.org/10.1007/978-3-319-71440-0\\_8](https://doi.org/10.1007/978-3-319-71440-0_8)

Coatanéa E, Wu D, Tsarkov V, Gary Wang G, Modi S, Jafarian H. **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**. In 38th Computers and Information in Engineering Conference. Vol. 1B-2018. The American Society of Mechanical Engineers ASME. 2018 <https://doi.org/10.1115/DETC201885895>

Borgianni Y, Lenarduzzi V, Rotini F, Taibi D. **Bringing stimulated ideation in a web environment: Students' evaluations of a basic software release**. In Dekoninck E, Wodehouse A, Snider C, Georgiev G, Cascini G, editors, ICDC 2018 - 5th International Conference on Design Creativity, Conference Proceedings. DESIGN SOCIETY. 2018. (Proceedings of the International Conference on Engineering Design, ICED).

Still K, Seppänen M, Korhonen H, Valkokari K, Suominen A, Kumpulainen M. **Business Model Innovation of Startups Developing Multisided Digital Platforms**. In Proceedings - 2017 IEEE 19th Conference on Business Informatics, CBI 2017. IEEE. 2017. p. 70-75 <https://doi.org/10.1109/CBI.2017.86>

Humaloja J-P, Ali-Löytty S, Pohjolainen S, Hämäläinen T. **Independent Loops Search in Flow Networks Aiming for Well-Conditioned System of Equations**. In Quintela P, Barral P, Gómez D, Pena FJ, Rodríguez J, Salgado P, Vázquez-Mendéz ME, editors, Progress in Industrial Mathematics at ECMI 2016. Springer International Publishing. 2017. (Mathematics in industry). <https://doi.org/10.1007/978-3-319-63082-3>

Suonsyrjä S. **Eeny, Meeny, Miny, Mo...: A multiple case study on selecting a technique for user-interaction data collecting**. In 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). [https://doi.org/10.1007/978-3-319-57633-6\\_4](https://doi.org/10.1007/978-3-319-57633-6_4)

Orlov Y, Zenyuk D, Samuylov A, Moltchanov D, Andreev S, Romashkova O et al. **Time-dependent SIR modeling for D2D communications in indoor deployments**. In Proceedings - 31st European Conference on Modelling and Simulation, ECMS 2017. EUROPEAN COUNCIL FOR MODELLING AND SIMULATION. 2017. p. 726-731

Salo M, Pirkkalainen H, Koskelainen T. **Technostress and social networking services: Uncovering strains and their underlying stressors**. In 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). [https://doi.org/10.1007/978-3-319-64695-4\\_4](https://doi.org/10.1007/978-3-319-64695-4_4)

Fedorov S, Orlov Y, Samuylov A, Moltchanov D, Gaidamaka Y, Samouylov K et al. **Sir distribution in D2D environment with non-stationary mobility of users**. In Proceedings - 31st European Conference on Modelling and Simulation, ECMS 2017. EUROPEAN COUNCIL FOR MODELLING AND SIMULATION. 2017. p. 720-725 <https://doi.org/10.7148/2017-0720>

Wu D, Coatanea E, Wang GG. **Dimension reduction and decomposition using causal graph and qualitative analysis for aircraft concept design optimization.** In 43rd Design Automation Conference. The American Society of Mechanical Engineers ASME. 2017 <https://doi.org/10.1115/DETC201767601>

Taibi D, Lenarduzzi V, Janes A, Liukkunen K, Ahmad MO. **Comparing requirements decomposition within the Scrum, Scrum with Kanban, XP, and Banana development processes.** In 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). [https://doi.org/10.1007/978-3-319-57633-6\\_5](https://doi.org/10.1007/978-3-319-57633-6_5)

Virtanen H, Uusitalo T, Dumitrescu M. **Simulation studies of DFB laser longitudinal structures for narrow linewidth emission.** In 16th International Conference on Numerical Simulation of Optoelectronic Devices, NUSOD 2016. IEEE. 2016. p. 153-154 <https://doi.org/10.1109/NUSOD.2016.7547078>

Uusitalo T, Virtanen H, Dumitrescu M. **Transverse structure optimization of laterally-coupled ridge waveguide DFB lasers.** In 16th International Conference on Numerical Simulation of Optoelectronic Devices, NUSOD 2016. IEEE. 2016. p. 79-80. <https://doi.org/10.1109/NUSOD.2016.7547038>

Dumitrescu M, Uusitalo T, Virtanen H, Laakso A, Bardella P, Montrosset I. **Simulation of photon-photon resonance enhanced direct modulation bandwidth of DFB lasers.** In 16th International Conference on Numerical Simulation of Optoelectronic Devices, NUSOD 2016. IEEE. 2016. p. 147-148 <https://doi.org/10.1109/NUSOD.2016.7547075>

Rubel O, Lukin V, Egiazarian K. **On prediction of DCT-based denoising efficiency under spatially correlated noise conditions.** In 2016 13th International Conference on Modern Problems of Radio Engineering, Telecommunications and Computer Science (TCSET) . IEEE. 2016. p. 750-754 <https://doi.org/10.1109/TCSET.2016.7452171>

Tokola H, Niemi E, Väistö V. **Lean manufacturing methods in simulation literature: Review and association analysis.** In 2015 Winter Simulation Conference (WSC). 2016. p. 2239-2248 <https://doi.org/10.1109/WSC.2015.7408336>

Hokkanen L, Kuusinen K, Väänänen K. **Minimum viable user experience: A framework for supporting product design in startups.** In 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). [https://doi.org/10.1007/978-3-319-33515-5\\_6](https://doi.org/10.1007/978-3-319-33515-5_6)

Yrjökoski K, Helander N, Jaakkola H. **To network or not to network? Analysis of the Finnish software industry-A networking approach.** In 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). [https://doi.org/10.1007/978-3-319-40515-5\\_9](https://doi.org/10.1007/978-3-319-40515-5_9)

Suominen A, Hyrynsalmi S, Seppänen M. **Ecosystems Here, There, and Everywhere — A Barometrical Analysis of the Roots of 'Software Ecosystem'.** In 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). [https://doi.org/10.1007/978-3-319-40515-5\\_3](https://doi.org/10.1007/978-3-319-40515-5_3)

Samuylov A, Moltchanov D, Gaidamaka Y, Begishev V, Kovalchukov R, Abaev P et al. **Sir analysis in square-shaped indoor premises.** In Proceedings - 30th European Conference on Modelling and Simulation, ECMS 2016. EUROPEAN COUNCIL FOR MODELLING AND SIMULATION. 2016. p. 692-697 <https://doi.org/10.7148/2016-0692>

Ruohonen J, Hyrynsalmi S, Leppänen V. **Software vulnerability life cycles and the age of software products: An empirical assertion with operating system products.** In Advanced Information Systems Engineering Workshops - CAiSE 2016 International Workshops, Proceedings. Springer Verlag. 2016. p. 207-218. (Lecture Notes in Business Information Processing). <https://doi.org/10.1007/978-3-319-39564-7-20>

Canelas P, Martins L, Mora A, S. Ribeiro A, Fonseca J. **An image generator platform to improve cell tracking algorithms simulation of objects of various morphologies, kinetics and clustering.** In SIMULTECH 2016 - Proceedings of the 6th International Conference on Simulation and Modeling Methodologies, Technologies and Applications. SCITEPRESS. 2016. p. 44-55



Taibi D, Janes A, Lenarduzzi V. **Towards a lean approach to reduce code smells injection: An empirical study.** In Agile Processes in Software Engineering and Extreme Programming - 17th International Conference, XP 2016, Proceedings. Springer Verlag. 2016. (Lecture Notes in Business Information Processing). [https://doi.org/10.1007/978-3-319-33515-5\\_30](https://doi.org/10.1007/978-3-319-33515-5_30)

López MB, Nieto A, Silvén O, Bóutellier J, Vilariño DL. **Reconfigurable computing for future vision-capable devices.** In 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  
<https://doi.org/10.1109/SAMOS.2015.7363657>

Karamanakos P, Geyer T, Kennel R. **Computationally efficient optimization algorithms for model predictive control of linear systems with integer inputs.** In 2015 54th IEEE Conference on Decision and Control, CDC 2015. 2015. p. 3663-3668  
<https://doi.org/10.1109/CDC.2015.7402787>

Ruohonen J, Hyrynsalmi S, Leppänen V. **Software evolution and time series volatility: An empirical exploration.** In 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 <https://doi.org/10.1145/2804360.2804367>

Nix E, Das P, Taylor J, Davies M. **Employing a multi-Objective robust optimisation method for healthy and low-energy dwelling design in Delhi, India.** In Proceedings of the 2014 Building Simulation and Optimization Conference. 2015. p. 2093-2100

Hyrynsalmi S, Seppänen M, Nokkala T, Suominen A, Järvi A. **Wealthy, healthy and/or happy —what does 'ecosystem health' stand for?** In 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). [https://doi.org/10.1007/978-3-319-19593-3\\_24](https://doi.org/10.1007/978-3-319-19593-3_24)

Hokkanen L, Väänänen-Vainio-Mattila K. **UX work in startups: Current practices and future needs.** In 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). [https://doi.org/10.1007/978-3-319-18612-2\\_7](https://doi.org/10.1007/978-3-319-18612-2_7)

Järvi A, Taajamaa V, Hyrynsalmi S. **Lean software startup – an experience report from an entrepreneurial software business course.** In Software Business - 6th International Conference, ICSOB 2015, Proceedings. Vol. 210. Springer Verlag. 2015. p. 230-244. (Lecture Notes in Business Information Processing). [https://doi.org/10.1007/978-3-319-19593-3\\_21](https://doi.org/10.1007/978-3-319-19593-3_21)

Tauriainen M, Puttonen J, Saari A, Laakso P, Forsblom K. **The assessment of constructability: BIM cases.** In 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

Lu W, Nummenmaa J, Zhang Z. **Passive condition pre-enforcement for rights exporting.** In 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). [https://doi.org/10.1007/978-3-319-21915-8\\_16](https://doi.org/10.1007/978-3-319-21915-8_16)

Lenarduzzi V, Lunesu I, Matta M, Taibi D. **Functional size measures and effort estimation in agile development: A replicated study.** In 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). [https://doi.org/10.1007/978-3-319-18612-2\\_9](https://doi.org/10.1007/978-3-319-18612-2_9)

Coatanéa E, Nonsiri S, Christophe F, Mokammel F. **Graph based representation and analyses for conceptual stages.** In 34th Computers and Information in Engineering Conference. Vol. 1A. The American Society of Mechanical Engineers ASME. 2014 <https://doi.org/10.1115/DETC201435652>

Saintsing CD, Cook BS, Tentzeris MM. **An origami inspired reconfigurable spiral antenna**. In 38th Mechanisms and Robotics Conference. Vol. 5B. The American Society of Mechanical Engineers ASME. 2014  
<https://doi.org/10.1115/DETC201435353>

Ogeya MC, Coatanéa E, Medyna G. **Theory driven design and real proto typing of biomass pyrolytic stove**. In Proceedings of the International Conference on Engineering Design, ICED. Vol. 9 DS75-09. 2013. p. 69-78

Mokammel F, Coatanea E, Christophe F, Ba Khouya M, Medyna G. **Towards an approach for evaluating the quality of requirements**. In 33rd Computers and Information in Engineering Conference. Vol. 2 B. American Society of Mechanical Engineers. 2013. V02BT02A024 <https://doi.org/10.1115/DETC2013-13708>

Desnos K, Pelcat M, Nezan JF, Bhattacharyya SS, Aridhi S. **PiMM: Parameterized and interfaced dataflow meta-model for MPSoCs runtime reconfiguration**. In Proceedings - 2013 International Conference on Embedded Computer Systems: Architectures, Modeling and Simulation, IC-SAMOS 2013. IEEE COMPUTER SOCIETY PRESS. 2013. p. 41-48. 6621104  
<https://doi.org/10.1109/SAMOS.2013.6621104>

Bakhouya M, Chariete A, Gaber J, Wack M, Niar S, Coatanea E. **Performance evaluation of a flow control algorithm for network-on-chip**. In Proceedings of the 2012 International Conference on High Performance Computing and Simulation, HPCS 2012. 2012. p. 281-287. 6266925 <https://doi.org/10.1109/HPCSim.2012.6266925>

Halonen A, Hyrynsalmi S, Kimppa KK, Knuutila T, Smed J, Hakonen H. **Towards usability heuristics for games utilizing speech recognition**. In 4th Asian Conference on Intelligent Games and Simulation, GAME-ON ASIA 2012 - 4th Asian Simulation Technology Conference, ASTEC 2012. EUROSIS. 2012. p. 51-55

Hyrynsalmi S, Suominen A, Mäkilä T, Järvi A, Knuutila T. **Revenue models of application developers in android market ecosystem**. In Software Business - Third International Conference, ICSOB 2012, Proceedings. Springer Verlag. 2012. p. 209-222. (Lecture Notes in Business Information Processing). [https://doi.org/10.1007/978-3-642-30746-1\\_17](https://doi.org/10.1007/978-3-642-30746-1_17)

Lu W, Zhang Z, Nummenmaa J. **Characterizing trustworthy digital rights exporting**. In 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). [https://doi.org/10.1007/978-3-642-33281-4\\_7](https://doi.org/10.1007/978-3-642-33281-4_7)

Niinimäki M, Niemi T, Martin S, Nummenmaa J, Thanisch P. **Timely report production from WWW data sources**. In 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). <https://doi.org/10.1007/978-3-642-29231-6-15>

Tauriainen M, Mero AK, Lemström A, Puttonen J, Saari A. **The development of constructability using BIM as an intensifying technology**. In 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

Nylander T, Boutellier J, Nikunen K, Hannuksela J, Silven O. **Reconfigurable miniature sensor nodes for condition monitoring**. In Proceedings - 2012 International Conference on Embedded Computer Systems: Architectures, Modeling and Simulation, IC-SAMOS 2012. 2012. p. 113-119. 6404164 <https://doi.org/10.1109/SAMOS.2012.6404164>

Thanisch P, Niemi T, Niinimäki M, Nummenmaa J. **Using the entity-attribute-value model for olap cube construction**. In 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). [https://doi.org/10.1007/978-3-642-24511-4\\_5](https://doi.org/10.1007/978-3-642-24511-4_5)

Lavazza L, Morasca S, Taibi D, Tosi D. **OP2A: How to improve the quality of the web portal of open source software products**. In 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). <https://doi.org/10.1007/978-3-642-28082-5-11>

Coatanéa E, Ritola T, Tumer IY, Jensen D. **A framework for building behavioral models for design-stage failure identification using dimensional analysis.** In Proceedings of the ASME Design Engineering Technical Conference. Vol. 5. AMER SOC MECHANICAL ENGINEERS. 2010. p. 591-601 <https://doi.org/10.1115/DETC2010-28864>

Lavazza L, Morasca S, Taibi D, Tosi D. **Applying SCRUM in an OSS development process: An empirical evaluation.** In 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). [https://doi.org/10.1007/978-3-642-13054-0\\_11](https://doi.org/10.1007/978-3-642-13054-0_11)

Coatanéa E, Yannou B, Honkala S, Lajunen A, Saarelainen T, Makkonen P. **Measurement theory and dimensional analysis: Methodological impact on the comparison and evaluation process.** In 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 <https://doi.org/10.1115/DETC2007-34364>

Ellervee P, Nurmi J. **Guest Editorial: Implementation Issues in System-on-Chip.** Journal of Signal Processing Systems. 2017 Jun 1;87(3):269-270. <https://doi.org/10.1007/s11265-017-1242-x>

Korhonen HME, Heikkilä J, Törnwall JM. **A simulation case study of production planning and control in printed wiring board manufacturing.** Winter Simulation Conference Proceedings. 2001 Dec 1;2:844-847.

Grigore V, Hatonen J, Kyyra J, Suntio T. **Dynamics of a buck converter with a constant power load.** In 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). <https://doi.org/10.1109/PESC.1998.701881>

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