

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>

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>

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>

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*).

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>

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>

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>

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>

Kovalchukov R, Moltchanov D, Begishev V, Samuylov A, Andreev S, Koucheryavy 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>

Puonti M, Raitalaakso T. **Data Vault Mappings to Dimensional Model Using Schema Matching.** In Doucek P, Basl J, Pavlicek A, Tjoa AM, Dettler 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)

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>

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>

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>

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>

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>

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>

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, Nyländén 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>

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>

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>

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>

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)

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).

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>

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>

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, Gungör 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>

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>

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>

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>

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>

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>

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)

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>

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>

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>

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)

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>

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>

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>

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>

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>

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)

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

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>

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>

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. 7547038 <https://doi.org/10.1109/NUSOD.2016.7547038>

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>

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)

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>

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>

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>

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>

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

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>

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)

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>

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)

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>

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>

Yrjönkoski 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)

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)

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)

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>

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>

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>

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>

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

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>

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>

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)

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)

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)

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

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)

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)

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>

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>

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>

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>

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>

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, Coatanéa 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>

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.

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)

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>

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>

Nylanden 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>

Hyrnsalmi 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)

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

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>

Halonen A, Hyrnsalmi 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

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, 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>
- 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>
- 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>
- 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>
- 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>
- 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)
- 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>
- Coatanéa E, Ritola T, Tümer 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)
- 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>
- Acimovic J. **Neural networks, cell cultures and some older work on data analysis.** 2009. Paper presented at Okinawa Computational Neuroscience Course 2009, Japan.

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>

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>

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>

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>