

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

Georgiev, G. Y., Aho, T., Kesseli, J., Yli-Harja, O., & Kauffman, S. A. (2019). Action and power efficiency in self-organization: The case for growth efficiency as a cellular objective in *Escherichia coli*. In C. L. Flores Martinez, G. Y. Georgiev, J. M. Smart, & M. E. Price (Eds.), *Evolution, Development and Complexity - Multiscale Evolutionary Models of Complex Adaptive Systems* (pp. 229-244). (Springer Proceedings in Complexity). Springer. https://doi.org/10.1007/978-3-030-00075-2_8

Coatanéa, E., Ritola, T., Tumer, I. Y., & Jensen, D. (2010). 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, pp. 591-601). AMER SOC MECHANICAL ENGINEERS. <https://doi.org/10.1115/DETC2010-28864>

Canelas, P., Martins, L., Mora, A., S. Ribeiro, A., & Fonseca, J. (2016). 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* (pp. 44-55). SCITEPRESS.

Saintsing, C. D., Cook, B. S., & Tentzeris, M. M. (2014). An origami inspired reconfigurable spiral antenna. In *38th Mechanisms and Robotics Conference* (Vol. 5B). The American Society of Mechanical Engineers ASME. <https://doi.org/10.1115/DETC201435353>

Lavazza, L., Morasca, S., Taibi, D., & Tosi, D. (2010). 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, pp. 147-159). (Lecture Notes in Business Information Processing; Vol. 48 LNBIP). Springer Verlag. https://doi.org/10.1007/978-3-642-13054-0_11

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

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

Lu, W., Zhang, Z., & Nummenmaa, J. (2012). Characterizing trustworthy digital rights exporting. In *Perspectives in Business Informatics Research - 11th International Conference, BIR 2012, Proceedings* (Vol. 128 LNBIP, pp. 85-95). (Lecture Notes in Business Information Processing; Vol. 128 LNBIP). Springer Verlag. https://doi.org/10.1007/978-3-642-33281-4_7

Taivalsaari, A., Mikkonen, T., Pautasso, C., & Systä, K. (2019). Client-Side Cornucopia: Comparing the Built-In Application Architecture Models in the Web Browser. In M. J. Escalona, F. Domínguez Mayo, T. A. Majchrzak, & V. Monfort (Eds.), *Web Information Systems and Technologies - 14th International Conference, WEBIST 2018, Revised Selected Papers* (pp. 1-24). (Lecture Notes in Business Information Processing; Vol. 372). Springer. https://doi.org/10.1007/978-3-030-35330-8_1

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

Taibi, D., Lenarduzzi, V., Janes, A., Liukkunen, K., & Ahmad, M. O. (2017). 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* (pp. 68-83). (Lecture Notes in Business Information Processing; Vol. 283). Springer Verlag. https://doi.org/10.1007/978-3-319-57633-6_5

- Karamanakos, P., Geyer, T., & Kennel, R. (2015). 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* (pp. 3663-3668) <https://doi.org/10.1109/CDC.2015.7402787>
- Ortombina, L., Liegmann, E., Karamanakos, P., Tinazzi, F., Zigliotto, M., & Kennel, R. (2018). 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* [8460173] IEEE. <https://doi.org/10.1109/COMPEL.2018.8460173>
- Puonti, M., & Raitalaakso, T. (2019). Data Vault Mappings to Dimensional Model Using Schema Matching. In P. Doucek, J. Basl, A. Pavlicek, A. M. Tjoa, K. Detter, & M. Raffai (Eds.), *Research and Practical Issues of Enterprise Information Systems - 13th IFIP WG 8.9 International Conference, CONFENIS 2019, Proceedings* (pp. 55-64). (Lecture Notes in Business Information Processing; Vol. 375). Springer. https://doi.org/10.1007/978-3-030-37632-1_5
- Wu, D., Coatanea, E., & Wang, G. G. (2017). 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. <https://doi.org/10.1115/DETC201767601>
- Grigore, V., Hatonen, J., Kyyra, J., & Suntio, T. (1998). Dynamics of a buck converter with a constant power load. In *PESC 1998 - 29th Annual IEEE Power Electronics Specialists Conference* (pp. 72-78). [701881] (PESC Record - IEEE Annual Power Electronics Specialists Conference; Vol. 1). Institute of Electrical and Electronics Engineers Inc.. <https://doi.org/10.1109/PESC.1998.701881>
- Suominen, A., Hyrynsalmi, S., & Seppänen, M. (2016). 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* (pp. 32-46). (Lecture Notes in Business Information Processing; Vol. 240). Springer Verlag. https://doi.org/10.1007/978-3-319-40515-5_3
- Suonsyrjä, S. (2017). 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* (pp. 52-67). (Lecture Notes in Business Information Processing; Vol. 283). Springer Verlag. https://doi.org/10.1007/978-3-319-57633-6_4
- Nix, E., Das, P., Taylor, J., & Davies, M. (2015). 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* (pp. 2093-2100)
- Yoo, S. K., Cotton, S. L., Sofotasios, P. C., Muhaidat, S., Badarneh, O. S., & Karagiannidis, G. K. (2019). Energy Detection-Based Spectrum Sensing over Fisher-Snedecor F Fading Channels. In *2018 IEEE Global Communications Conference* [8647778] IEEE. <https://doi.org/10.1109/GLOCOM.2018.8647778>
- Lenarduzzi, V., Lunesu, I., Matta, M., & Taibi, D. (2015). 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, pp. 105-116). (Lecture Notes in Business Information Processing; Vol. 212). Springer-Verlag Berlin Heidelberg. https://doi.org/10.1007/978-3-319-18612-2_9
- Coatanea, E., Nonsiri, S., Christophe, F., & Mokammel, F. (2014). 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. <https://doi.org/10.1115/DETC201435652>
- Kovalchukov, R., Moltchanov, D., Begishev, V., Samuylov, A., Andreev, S., Koucheryavy, Y., & Samouylov, K. (2019). Improved Session Continuity in 5G NR with Joint Use of Multi-Connectivity and Guard Bandwidth. In *2018 IEEE Global Communications Conference, GLOBECOM 2018* IEEE. <https://doi.org/10.1109/GLOCOM.2018.8647608>

- Humaloja, J-P., Ali-Löyty, S., Pohjolainen, S., & Hämäläinen, T. (2017). Independent Loops Search in Flow Networks Aiming for Well-Conditioned System of Equations. In P. Quintela, P. Barral, D. Gómez, F. J. Pena, J. Rodríguez, P. Salgado, & M. E. Vázquez-Mendéz (Eds.), *Progress in Industrial Mathematics at ECMI 2016* (Mathematics in industry; Vol. 26). Springer International Publishing. <https://doi.org/10.1007/978-3-319-63082-3>
- Coatanéa, E., Wu, D., Tsarkov, V., Gary Wang, G., Modi, S., & Jafarian, H. (2018). 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. <https://doi.org/10.1115/DETC201885895>
- Tokola, H., Niemi, E., & Väistö, V. (2016). Lean manufacturing methods in simulation literature: Review and association analysis. In *2015 Winter Simulation Conference (WSC)* (pp. 2239-2248) <https://doi.org/10.1109/WSC.2015.7408336>
- Järvi, A., Taajamaa, V., & Hyrnsalmi, S. (2015). Lean software startup – an experience report from an entrepreneurial software business course. In *Software Business - 6th International Conference, IC SOB 2015, Proceedings* (Vol. 210, pp. 230-244). (Lecture Notes in Business Information Processing; Vol. 210). Springer Verlag. https://doi.org/10.1007/978-3-319-19593-3_21
- Coatanéa, E., Yannou, B., Honkala, S., Lajunen, A., Saarelainen, T., & Makkonen, P. (2008). 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* (pp. 173-182). AMER SOC MECHANICAL ENGINEERS. <https://doi.org/10.1115/DETC2007-34364>
- Hokkanen, L., Kuusinen, K., & Väänänen, K. (2016). 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* (pp. 66-78). (Lecture Notes in Business Information Processing; Vol. 251). Springer Verlag. https://doi.org/10.1007/978-3-319-33515-5_6
- Raitoharju, J., & Meissner, K. (2019). On Confidences and Their Use in (Semi-)Automatic Multi-Image Taxa Identification. In *2019 IEEE Symposium Series on Computational Intelligence, SSCI 2019* (pp. 1338-1343). [9002975] IEEE. <https://doi.org/10.1109/SSCI44817.2019.9002975>
- Rubel, O., Lukin, V., & Egiazarian, K. (2016). 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)* (pp. 750-754). IEEE. <https://doi.org/10.1109/TCSET.2016.7452171>
- Lavazza, L., Morasca, S., Taibi, D., & Tosi, D. (2011). 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* (pp. 149-162). (Lecture Notes in Business Information Processing; Vol. 101 LNBIP). Springer Verlag. <https://doi.org/10.1007/978-3-642-28082-5-11>
- Lu, W., Nummenmaa, J., & Zhang, Z. (2015). Passive condition pre-enforcement for rights exporting. In *Perspectives in Business Informatics Research - 14th International Conference, BIR 2015, Proceedings* (Vol. 229, pp. 241-254). (Lecture Notes in Business Information Processing; Vol. 229). Springer Verlag. https://doi.org/10.1007/978-3-319-21915-8_16
- Bakhouya, M., Chariete, A., Gaber, J., Wack, M., Niar, S., & Coatanea, E. (2012). 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* (pp. 281-287). [6266925] <https://doi.org/10.1109/HPCSim.2012.6266925>
- Desnos, K., Pelcat, M., Nezan, J. F., Bhattacharyya, S. S., & Aridhi, S. (2013). 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* (pp. 41-48). [6621104] IEEE COMPUTER SOCIETY PRESS. <https://doi.org/10.1109/SAMOS.2013.6621104>

Lenarduzzi, V., Stan, A. C., Taibi, D., Venters, G., & Windegger, M. (2018). 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* (pp. 133-143). (Lecture Notes in Business Information Processing; Vol. 302). Springer-Verlag Berlin Heidelberg. https://doi.org/10.1007/978-3-319-71440-0_8

López, M. B., Nieto, A., Silvén, O., Bóutellier, J., & Vilariño, D. L. (2015). Reconfigurable computing for future vision-capable devices. In *Proceedings - 2015 International Conference on Embedded Computer Systems: Architectures, Modeling and Simulation, SAMOS 2015* (pp. 34-41). [7363657] Institute of Electrical and Electronics Engineers Inc.. <https://doi.org/10.1109/SAMOS.2015.7363657>

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

Hyrnsalmi, S., Suominen, A., Mäkilä, T., Järvi, A., & Knuutila, T. (2012). Revenue models of application developers in android market ecosystem. In *Software Business - Third International Conference, ICSOB 2012, Proceedings* (pp. 209-222). (Lecture Notes in Business Information Processing; Vol. 114). Springer Verlag. https://doi.org/10.1007/978-3-642-30746-1_17

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

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

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

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

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

Ruohonen, J., Hyrnsalmi, S., & Leppänen, V. (2015). 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, pp. 56-65). Institute of Electrical and Electronics Engineers Inc.. <https://doi.org/10.1145/2804360.2804367>

Ruohonen, J., Hyrnsalmi, S., & Leppänen, V. (2016). 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* (pp. 207-218). (Lecture Notes in Business Information Processing; Vol. 249). Springer Verlag. <https://doi.org/10.1007/978-3-319-39564-7-20>

Ponomarenko, M., Egiazarian, K., Lukin, V., & Abramova, V. (2018). 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, pp. 115-118). [8460285] IEEE COMPUTER SOCIETY PRESS. <https://doi.org/10.1109/MMET.2018.8460285>

Salo, M., Pirkkalainen, H., & Koskelainen, T. (2017). 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* (pp. 41-53). (Lecture Notes in Business Information Processing; Vol. 294). Springer Verlag. https://doi.org/10.1007/978-3-319-64695-4_4

Tauriainen, M., Puttonen, J., Saari, A., Laakso, P., & Forsblom, K. (2015). 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* (pp. 55-61). CRC Press/Balkema.

Tauriainen, M., Mero, A. K., Lemström, A., Puttonen, J., & Saari, A. (2012). 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* (pp. 713-716)

Ogeya, M. C., Coatanéa, E., & Medyna, G. (2013). 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, pp. 69-78)

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

Niinimäki, M., Niemi, T., Martin, S., Nummenmaa, J., & Thanisch, P. (2012). 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, pp. 184-195). (Lecture Notes in Business Information Processing; Vol. 106 LNBIP). Springer Verlag. <https://doi.org/10.1007/978-3-642-29231-6-15>

Yrjökoski, K., Helander, N., & Jaakkola, H. (2016). To network or not to network? Analysis of the Finnish software industry-A networking approach. In *Software Business: 7th International Conference, IC SOB 2016, Ljubljana, Slovenia, June 13-14, 2016, Proceedings* (pp. 124-134). (Lecture Notes in Business Information Processing; Vol. 240). Springer Verlag. https://doi.org/10.1007/978-3-319-40515-5_9

Taibi, D., Janes, A., & Lenarduzzi, V. (2016). 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* (Lecture Notes in Business Information Processing; Vol. 251). Springer Verlag. https://doi.org/10.1007/978-3-319-33515-5_30

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

Halonen, A., Hyrynsalmi, S., Kimppa, K. K., Knuutila, T., Smed, J., & Hakonen, H. (2012). 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* (pp. 51-55). EUROSIS.

Uusitalo, T., Virtanen, H., & Dumitrescu, M. (2016). Transverse structure optimization of laterally-coupled ridge waveguide DFB lasers. In *16th International Conference on Numerical Simulation of Optoelectronic Devices, NUSOD 2016* (pp. 79-80). [7547038] IEEE. <https://doi.org/10.1109/NUSOD.2016.7547038>

Thanisch, P., Niemi, T., Niinimäki, M., & Nummenmaa, J. (2011). 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, pp. 59-72). (Lecture Notes in Business Information Processing; Vol. 90 LNBIP). Springer Verlag. https://doi.org/10.1007/978-3-642-24511-4_5

Hokkanen, L., & Väänänen-Vainio-Mattila, K. (2015). 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, pp. 81-92). (Lecture Notes in Business Information Processing; Vol. 212).

Springer Verlag. https://doi.org/10.1007/978-3-319-18612-2_7

Hyrynsalmi, S., Seppänen, M., Nokkala, T., Suominen, A., & Järvi, A. (2015). 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, pp. 272-287). (Lecture Notes in Business Information Processing; Vol. 210). Springer Verlag. https://doi.org/10.1007/978-3-319-19593-3_24

Pohjolainen, S., & Suutala, A. (2016). Acoustic Modelling. In S. Pohjolainen (Ed.), *Mathematical Modelling* (pp. 185-205). Switzerland: Springer. https://doi.org/10.1007/978-3-319-27836-0_11

Ylinen, A., Mäkinen, J., & Kouhia, R. (2016). Two models for hydraulic cylinders in flexible multibody simulations. In *Computational Methods for Solids and Fluids: Multiscale Analysis, Probability Aspects and Model Reduction* (pp. 463-493). (Computational Methods in Applied Sciences; Vol. 41). Springer. https://doi.org/10.1007/978-3-319-27996-1_17

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

Korhonen, H. M. E., Heikkilä, J., & Törnwall, J. M. (2001). A simulation case study of production planning and control in printed wiring board manufacturing. *Winter Simulation Conference Proceedings*, *2*, 844-847.

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

Pereira, D. G., Rodrigues, P. C., Mejza, S., & Mexia, J. T. (2012). A comparison between joint regression analysis and the AMMI model: A case study with barley. *JOURNAL OF STATISTICAL COMPUTATION AND SIMULATION*, *82*(2), 193-207. <https://doi.org/10.1080/00949655.2011.615839>

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

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

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

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

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

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

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

- Krogerus, T., Hyvönen, M., & Huhtala, K. (2018). Analysis of common rail pressure signal of dual-fuel large industrial engine for identification of injection duration of pilot diesel injectors. *Fuel*, *216*, 1-9. <https://doi.org/10.1016/j.fuel.2017.11.152>
- Ugalde-Loo, C. E., Acha, E., & Licéaga-Castro, E. (2018). Analysis of the damping characteristics of two power electronics-based devices using 'individual channel analysis and design'. *Applied Mathematical Modelling*, *59*, 527-545. <https://doi.org/10.1016/j.apm.2018.02.008>
- Mattila, K., Puurtinen, T., Hyväluoma, J., Surmas, R., Mylly, M., Turpeinen, T., ... Timonen, J. (2016). A prospect for computing in porous materials research: Very large fluid flow simulations. *Journal of Computational Science*, *12*, 62-76. <https://doi.org/10.1016/j.jocs.2015.11.013>
- Pantsar, T., Rissanen, S., Dauch, D., Laitinen, T., Vattulainen, I., & Poso, A. (2018). 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*, *14*(9), [e1006458]. <https://doi.org/10.1371/journal.pcbi.1006458>
- Vuorio, J., Vattulainen, I., & Martinez-Seara, H. (2017). Atomistic fingerprint of hyaluronan-CD44 binding. *PLoS Computational Biology*, *13*(7), [e1005663]. <https://doi.org/10.1371/journal.pcbi.1005663>
- Boutellier, J., Raulet, M., & Silvén, O. (2013). Automatic hierarchical discovery of quasi-static schedules of RVC-CAL dataflow programs. *Journal of Signal Processing Systems*, *71*(1), 35-40. <https://doi.org/10.1007/s11265-012-0676-4>
- Räsänen, O., Seshadri, S., Karadayi, J., Riebling, E., Bunce, J., Cristia, A., ... Soderstrom, M. (2019). Automatic word count estimation from daylong child-centered recordings in various language environments using language-independent syllabification of speech. *Speech Communication*, *113*, 63-80. <https://doi.org/10.1016/j.specom.2019.08.005>
- Sandev, T., Iomin, A., Kantz, H., Metzler, R., & Chechkin, A. (2016). Comb Model with Slow and Ultraslow Diffusion. *Mathematical Modelling of Natural Phenomena*, *11*(3), 18-33. <https://doi.org/10.1051/mmnp/201611302>
- Enkavi, G., Mikkolainen, H., Güngör, B., Ikonen, E., & Vattulainen, I. (2017). Concerted regulation of npc2 binding to endosomal/lysosomal membranes by bis(monoacylglycero)phosphate and sphingomyelin. *PLoS Computational Biology*, *13*(10), [e1005831]. <https://doi.org/10.1371/journal.pcbi.1005831>
- Blavatska, V., & Metzler, R. (2015). Conformational properties of complex polymers: Rosette versus star-like structures. *Journal of Physics A: Mathematical and Theoretical*, *48*(13), [135001]. <https://doi.org/10.1088/1751-8113/48/13/135001>
- Orelma, H. (2019). Continuum approach to high-cycle fatigue. The finite life-time case with stochastic stress history. *Vestnik Samarskogo Gosudarstvennogo Tekhnicheskogo Universiteta, Seriya Fiziko-Matematicheskie Nauki*, *23*(3), 452-463. <https://doi.org/10.14498/vsgtu1705>
- Stockrahm, A., Lahtinen, V., Kangas, J. J. J., & Kotiuga, P. R. (Accepted/In press). Cuts for 3-D magnetic scalar potentials: Visualizing unintuitive surfaces arising from trivial knots. *Computers and Mathematics with Applications*. <https://doi.org/10.1016/j.camwa.2019.05.023>
- Nanni, L., Maguolo, G., & Paci, M. (2020). Data augmentation approaches for improving animal audio classification. *Ecological Informatics*, *57*, [101084]. <https://doi.org/10.1016/j.ecoinf.2020.101084>
- Barford, L., Bhattacharyya, S. S., & Liu, Y. (2017). Data Flow Algorithms for Processors with Vector Extensions: Handling Actors With Internal State. *Journal of Signal Processing Systems*, *87*(1), 21-31. <https://doi.org/10.1007/s11265-015-1045-x>
- Boutellier, J., & Nyländén, T. (2017). Design Flow for GPU and Multicore Execution of Dynamic Dataflow Programs. *Journal of Signal Processing Systems*, *89*(3), 469-478. <https://doi.org/10.1007/s11265-017-1260-8>

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

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

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

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

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

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

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

Emmert-Streib, F., Tripathi, S., & Matos Simoes, R. D. (2012). Harnessing the complexity of gene expression data from cancer: From single gene to structural pathway methods. *Biology Direct*, 7, [44]. <https://doi.org/10.1186/1745-6150-7-44>

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

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

Elfgen, S., Rasilo, P., & Hameyer, K. (2020). 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*. <https://doi.org/10.1002/jnm.2781>

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

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

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

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

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

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

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

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

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

Di Gironimo, G., Lanzotti, A., Marzullo, D., Esposito, G., Carfora, D., & Siuko, M. (2015). Iterative and Participative Axiomatic Design Process in complex mechanical assemblies: case study on fusion engineering. *International Journal on Interactive Design and Manufacturing*, 9(4), 325-338. <https://doi.org/10.1007/s12008-015-0270-7>

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

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

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

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

Lindroos, M., Laukkanen, A., Cailletaud, G., & Kuokkala, V-T. (2017). 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*, 125, 68-76. <https://doi.org/10.1016/j.ijsolstr.2017.07.015>

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

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

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

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

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

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

Kreutzer, J., Viehrig, M., Pölonen, R. P., Zhao, F., Ojala, M., Aalto-Setälä, K., & Kallio, P. (2019). Pneumatic unidirectional cell stretching device for mechanobiological studies of cardiomyocytes. *BIOMECHANICS AND MODELING IN MECHANOBIOLOGY*. <https://doi.org/10.1007/s10237-019-01211-8>

Mäki-Jaskari, M. A., & Rantala, T. T. (2004). Possible structures of nonstoichiometric tin oxide: The composition Sn₂O₃. *Modelling and Simulation in Materials Science and Engineering*, 12(1), 33-41. <https://doi.org/10.1088/0965-0393/12/1/004>

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

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

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

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

Safdari, H., Cherstvy, A. G., Chechkin, A. V., Thiel, F., Sokolov, I. M., & Metzler, R. (2015). Quantifying the non-ergodicity of scaled Brownian motion. *Journal of Physics A: Mathematical and Theoretical*, 48(37), [375002]. <https://doi.org/10.1088/1751-8113/48/37/375002>

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

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

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

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

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

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

Yoo, S. K., Cotton, S. L., Sofotasios, P. C., Matthaiou, M., Valkama, M., & Karagiannidis, G. K. (2017). The Fisher-Snedecor F Distribution: A Simple and Accurate Composite Fading Model. *IEEE Communications Letters*, 21(7), 1661-1664. <https://doi.org/10.1109/LCOMM.2017.2687438>

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

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

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

Matos Simoes, R. D., Dalleau, S., Williamson, K. E., & Emmert-Streib, F. (2015). Urothelial cancer gene regulatory networks inferred from large-scale RNAseq, Bead and Oligo gene expression data. *BMC Systems Biology*, 9, [21]. <https://doi.org/10.1186/s12918-015-0165-z>

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

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

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

Koivisto, A. J., Aromaa, M., Koponen, I. K., Fransman, W., Jensen, K. A., Mäkelä, J. M., & Hämeri, K. J. (2015). Workplace performance of a loose-fitting powered air purifying respirator during nanoparticle synthesis. *Journal of Nanoparticle Research*, 17(4). <https://doi.org/10.1007/s11051-015-2990-9>