

Turunen E. **Necessary and sufficient conditions for the existence of solution of generalized fuzzy relation equations $A \Leftrightarrow X = B$.** Information Sciences. 2020 Oct 1;536:351-357. <https://doi.org/10.1016/j.ins.2020.05.015>

Ghorbani M, Dehmer M, Cao S, Feng L, Tao J, Emmert-Streib F. **On the zeros of the partial Hosoya polynomial of graphs**. Information Sciences. 2020 Jul 1;524:199-215. <https://doi.org/10.1016/j.ins.2020.03.011>

Haukkanen P, Mattila M, Mäntysalo J. **Studying the inertias of LCM matrices and revisiting the Bourque-Ligh conjecture.** Journal of Combinatorial Theory. Series A. 2020 Apr 1;171. 105161. <https://doi.org/10.1016/j.jcta.2019.105161>

Sahin E, Stoykova E, Mäkinen J, Gotchev A. **Computer-Generated Holograms for 3D Imaging: A Survey.** ACM Computing Surveys. 2020;53(2). 32. <https://doi.org/10.1145/3378444>

Vagharshakyan S, Bregovic R, Gotchev A. **Densely-sampled light field reconstruction.** In Real VR – Immersive Digital Reality. Springer. 2020. p. 67-95. (Lecture Notes in Computer Science). https://doi.org/10.1007/978-3-030-41816-8_3

Sahin E, Mäkinen J, Akpinar U, Miyanishi Y, Gotchev A. **Design and characterization of light field and holographic near-eye displays.** In Real VR – Immersive Digital Reality. Springer. 2020. p. 244-271. (Lecture Notes in Computer Science). https://doi.org/10.1007/978-3-030-41816-8_10

Goranko V, Kuusisto A, Rönholm R. **Game-theoretic semantics for ATL^+ with applications to model checking.** Information and Computation. 2020. 104554. <https://doi.org/10.1016/j.ic.2020.104554>

Ahtinen A, Kaipainen K. **Learning and Teaching Experiences with a Persuasive Social Robot in Primary School – Findings and Implications from a 4-Month Field Study.** In Gram-Hansen SB, Jonassen TS, Midden C, editors, Persuasive Technology. Designing for Future Change - 15th International Conference on Persuasive Technology, PERSUASIVE 2020, Proceedings. Springer. 2020. p. 73-84. (Lecture Notes in Computer Science). https://doi.org/10.1007/978-3-030-45712-9_6

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>

Stanković RS, Sasao T, Astola JT, Yamada A. **Remarks on the Design of First Digital Computers in Japan - Contributions of Yasuo Komamiya.** In Moreno-Díaz R, Quesada-Arencibia A, Pichler F, editors, Computer Aided Systems Theory – EUROCAST 2019 - 17th International Conference, Revised Selected Papers. Springer. 2020. p. 123-130. (Lecture Notes in Computer Science). https://doi.org/10.1007/978-3-030-45093-9_16

Curcio IDD, Monakhov D, Hourunranta A, Aksu EB. **Tile priorities in adaptive 360-degree video streaming.** In McDaniel T, Berretti S, Curcio IDD, Basu A, editors, Smart Multimedia - 2nd International Conference, ICSM 2019, Revised Selected Papers. Springer. 2020. p. 212-223. (Lecture Notes in Computer Science). https://doi.org/10.1007/978-3-030-54407-2_18

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>

Amaral V, Norberto B, Goulão M, Aldinucci M, Benkner S, Bracciali A et al. **Programming languages for data-intensive HPC applications: A systematic mapping study.** Parallel Computing. 2019 Nov 8;91. 102584. <https://doi.org/10.1016/j.parco.2019.102584>

Hella L, Kuusisto A, Meier A, Vollmer H. **Satisfiability of modal inclusion logic: Lax and strict semantics.** ACM TRANSACTIONS ON COMPUTATIONAL LOGIC. 2019 Oct 1;21(1). 7. <https://doi.org/10.1145/3356043>

Hella L, Kuusisto A, Meier A, Virtema J. **Model checking and validity in propositional and modal inclusion logics.** JOURNAL OF LOGIC AND COMPUTATION. 2019 Sep 1;29(5):605-630. <https://doi.org/10.1093/logcom/exz008>

Yu G, Dehmer M, Emmert-Streib F, Jodlbauer H. **Hermitian normalized Laplacian matrix for directed networks**. Information Sciences. 2019 Aug 1;495:175-184. <https://doi.org/10.1016/j.ins.2019.04.049>

Robertsén F, Mattila K, Westerholm J. **High-performance SIMD implementation of the lattice-Boltzmann method on the Xeon Phi processor**. Concurrency Computation. 2019 Jul 10;31(13). e5072. <https://doi.org/10.1002/cpe.5072>

San Juan Sebastián P, Virtanen T, Garcia-Molla VM, Vidal AM. **Analysis of an efficient parallel implementation of active-set Newton algorithm**. Journal of Supercomputing. 2019 Mar;75(3):1298-1309. <https://doi.org/10.1007/s11227-018-2423-5>

Dehmer M, Chen Z, Emmert-Streib F, Mowshowitz A, Shi Y, Tripathi S et al. **Towards detecting structural branching and cyclicity in graphs: A polynomial-based approach**. Information Sciences. 2019 Jan 1;471:19-28. <https://doi.org/10.1016/j.ins.2018.08.043>

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>

Greipl S, Ninaus M, Bauer D, Kiili K, Moeller K. **A fun-accuracy trade-off in game-based learning**. In Söbke H, Gentile M, Allegra M, editors, Games and Learning Alliance - 7th International Conference, GALA 2018, Proceedings. Springer Verlag. 2019. p. 167-177. (Lecture Notes in Computer Science). https://doi.org/10.1007/978-3-030-11548-7_16

Goranko V, Kuusisto A, Rönholm R. **Alternating-time temporal logic ATL with finitely bounded semantics**. Theoretical Computer Science. 2019. <https://doi.org/10.1016/j.tcs.2019.05.029>

Kovalchukov R, Moltchanov D, Gaidamaka Y, Bobrikova E. **An Accurate Approximation of Resource Request Distributions in Millimeter Wave 3GPP New Radio Systems**. In Galinina O, Andreev S, Koucheryavy Y, Balandin S, editors, Internet of Things, Smart Spaces, and Next Generation Networks and Systems - 19th International Conference, NEW2AN 2019, and 12th Conference, ruSMART 2019, Proceedings. Springer Verlag. 2019. p. 572-585. (Lecture Notes in Computer Science). https://doi.org/10.1007/978-3-030-30859-9_50

Castillo C, Pyattaev A, Villa J, Masek P, Moltchanov D, Ometov A. **Autonomous UAV Landing on a Moving Vessel: Localization Challenges and Implementation Framework**. In Galinina O, Andreev S, Koucheryavy Y, Balandin S, editors, Internet of Things, Smart Spaces, and Next Generation Networks and Systems - 19th International Conference, NEW2AN 2019, and 12th Conference, ruSMART 2019, Proceedings. Springer Verlag. 2019. p. 342-354. (Lecture Notes in Computer Science). https://doi.org/10.1007/978-3-030-30859-9_29

Begishev V, Samuylov A, Moltchanov D, Samouylov K. **Characterizing the Degree of LTE Involvement in Supporting Session Continuity in Street Deployment of NR Systems**. In Vishnevskiy VM, Kozyrev DV, Samouylov KE, Kozyrev DV, editors, Distributed Computer and Communication Networks - 22nd International Conference, DCCN 2019, Revised Selected Papers. Springer. 2019. p. 71-83. (Lecture Notes in Computer Science). https://doi.org/10.1007/978-3-030-36614-8_6

Hildén E, Väänänen K. **Communicating User Insights with Travel Mindsets and Experience Personas in Intra-city Bus Context**. In Lamas D, Loizides F, Nacke L, Petrie H, Winckler M, Zaphiris P, editors, Human-Computer Interaction – INTERACT 2019 - 17th IFIP TC 13 International Conference, Proceedings. Springer Verlag. 2019. p. 34-52. (Lecture Notes in Computer Science). https://doi.org/10.1007/978-3-030-29390-1_3

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>

Kuusisto A, Reiter F. **Emptiness problems for distributed automata**. Information and Computation. 2019. 104503. <https://doi.org/10.1016/j.ic.2019.104503>

Kovalchukov R, Moltchanov D, Pyattaev A, Ometov A. **Evaluating multi-connectivity in 5G NR systems with mixture of unicast and multicast traffic.** In Di Felice M, Natalizio E, Bruno R, Kassler A, editors, *Wired/Wireless Internet Communications - 17th IFIP WG 6.2 International Conference, WWIC 2019, Proceedings*. Springer Verlag. 2019. p. 118-128. (Lecture Notes in Computer Science). https://doi.org/10.1007/978-3-030-30523-9_10

Kiili K, Koskinen A, Lindstedt A, Ninaus M. **Extending a digital fraction game piece by piece with physical manipulatives.** In Söbke H, Gentile M, Allegra M, editors, *Games and Learning Alliance - 7th International Conference, GALA 2018, Proceedings*. Springer Verlag. 2019. p. 157-166. (Lecture Notes in Computer Science). https://doi.org/10.1007/978-3-030-11548-7_15

Wang T, Wang H. **Graph-boosted attentive network for semantic body parsing.** In Tetko IV, Karpov P, Theis F, Kurková V, editors, *Artificial Neural Networks and Machine Learning – ICANN 2019: Image Processing - 28th International Conference on Artificial Neural Networks, 2019, Proceedings*. Springer Verlag. 2019. p. 267-280. (Lecture Notes in Computer Science). https://doi.org/10.1007/978-3-030-30508-6_22

Dang D, Pekkola S. **Institutional Perspectives on the Process of Enterprise Architecture Adoption.** *Information Systems Frontiers*. 2019. <https://doi.org/10.1007/s10796-019-09944-8>

Pyattaev A, Gerasimenko M. **Large-Scale Centralized Scheduling of Short-Range Wireless Links.** In Vishnevskiy VM, Kozyrev DV, Samouylov KE, Kozyrev DV, editors, *Distributed Computer and Communication Networks - 22nd International Conference, DCCN 2019, Revised Selected Papers*. Springer. 2019. p. 607-615. (Lecture Notes in Computer Science). https://doi.org/10.1007/978-3-030-36614-8_46

Tripathy S, Kannala J, Rahtu E. **Learning Image-to-Image Translation Using Paired and Unpaired Training Samples.** In Jawahar CV, Schindler K, Mori G, Li H, editors, *Computer Vision - ACCV 2018 - 14th Asian Conference on Computer Vision, Revised Selected Papers*. Springer Verlag. 2019. p. 51-66. (Lecture Notes in Computer Science). https://doi.org/10.1007/978-3-030-20890-5_4

Greipl S, Moeller K, Kiili K, Ninaus M. **Lifelong learning with a digital math game: Performance and basic experience differences across age.** In Liapis A, Yannakakis GN, Gentile M, Ninaus M, editors, *Games and Learning Alliance- 8th International Conference, GALA 2019, Proceedings*. Springer. 2019. p. 301-311. (Lecture Notes in Computer Science). https://doi.org/10.1007/978-3-030-34350-7_29

Chukhno N, Chukhno O, Shorgin S, Samouylov K, Galinina O, Gaidamaka Y. **Maximizing Achievable Data Rate in Unlicensed mmWave Networks with Mobile Clients.** In Galinina O, Andreev S, Koucheryavy Y, Balandin S, editors, *Internet of Things, Smart Spaces, and Next Generation Networks and Systems - 19th International Conference, NEW2AN 2019, and 12th Conference, ruSMART 2019, Proceedings*. Springer Verlag. 2019. p. 282-294. (Lecture Notes in Computer Science). https://doi.org/10.1007/978-3-030-30859-9_24

Michalás A, Bakas A, Dang HV, Zalizko A. **MicroSCOPE: Enabling access control in searchable encryption with the use of attribute-based encryption and SGX.** In Askarov A, Hansen RR, Rafnsson W, editors, *Secure IT Systems - 24th Nordic Conference, NordSec 2019, Proceedings*. Springer. 2019. p. 254-270. (Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics)). https://doi.org/10.1007/978-3-030-35055-0_16

Gupta P, Rahtu E. **MLAttack: Fooling Semantic Segmentation Networks by Multi-layer Attacks.** In Fink GA, Frintrop S, Jiang X, editors, *Pattern Recognition - 41st DAGM German Conference, DAGM GCPR 2019, Proceedings*. Springer. 2019. p. 401-413. (Lecture Notes in Computer Science). https://doi.org/10.1007/978-3-030-33676-9_28

Pirmagomedov R, Ahmed AA, Glushakov R. **Multi-level Architecture for P2P Services in Mobile Networks.** In Galinina O, Andreev S, Koucheryavy Y, Balandin S, editors, *Internet of Things, Smart Spaces, and Next Generation Networks and Systems - 19th International Conference, NEW2AN 2019, and 12th Conference, ruSMART 2019, Proceedings*. Springer Verlag. 2019. p. 415-423. (Lecture Notes in Computer Science). https://doi.org/10.1007/978-3-030-30859-9_35

Ponomarenko M, Egiazarian K. **Near Lossless JPEG Compression Based on Masking Effect of Non-predictable Energy of Image Regions**. In Felsberg M, Forssén P-E, Unger J, Sintorn I-M, editors, Image Analysis - 21st Scandinavian Conference, SCIA 2019, Proceedings. Springer Verlag. 2019. p. 173-183. (Lecture Notes in Computer Science). https://doi.org/10.1007/978-3-030-20205-7_15

Wang T, Wang H. **Non-parametric contextual relationship learning for semantic video object segmentation**. In Vera-Rodriguez R, Fierrez J, Morales A, editors, Progress in Pattern Recognition, Image Analysis, Computer Vision, and Applications - 23rd Iberoamerican Congress, CIARP 2018, Proceedings. Springer Verlag. 2019. p. 325-333. (Lecture Notes in Computer Science). https://doi.org/10.1007/978-3-030-13469-3_38

Mikkonen T, Pautasso C, Systä K, Taivalsaari A. **On the web platform cornucopia**. In Bakaev M, Ko I-Y, Frasinca F, editors, Web Engineering - 19th International Conference, ICWE 2019, Proceedings. Springer Verlag. 2019. p. 347-355. (Lecture Notes in Computer Science). https://doi.org/10.1007/978-3-030-19274-7_25

Rauhamaäki J. **Patterns for functional safety system development**. In Transactions on Pattern Languages of Programming IV. Springer Verlag. 2019. p. 100-138. (Lecture Notes in Computer Science). https://doi.org/10.1007/978-3-030-14291-9_4

Alho P, Rauhamaäki J. **Patterns for light-weight fault tolerance and decoupled design in distributed control systems**. In Transactions on Pattern Languages of Programming IV. Springer Verlag. 2019. p. 1-21. (Lecture Notes in Computer Science). https://doi.org/10.1007/978-3-030-14291-9_1

Pirmagomedov R, Moltchanov D, Ustinov V, Saqib MN, Andreev S. **Performance of mmwave-based mesh networks in indoor environments with dynamic blockage**. In Di Felice M, Natalizio E, Bruno R, Kassler A, editors, Wired/Wireless Internet Communications - 17th IFIP WG 6.2 International Conference, WWIC 2019, Proceedings. Springer Verlag. 2019. p. 129-140. (Lecture Notes in Computer Science). https://doi.org/10.1007/978-3-030-30523-9_11

Nguyen-Ha P, Huynh L, Rahtu E, Heikkilä J. **Predicting Novel Views Using Generative Adversarial Query Network**. In Felsberg M, Forssén P-E, Unger J, Sintorn I-M, editors, Image Analysis - 21st Scandinavian Conference, SCIA 2019, Proceedings. Springer Verlag. 2019. p. 16-27. (Lecture Notes in Computer Science). https://doi.org/10.1007/978-3-030-20205-7_2

Ponomarenko-Timofeev A, Ometov A, Galinina O. **Ray-Based Modeling of Unlicensed-Band mmWave Propagation Inside a City Bus**. In Galinina O, Andreev S, Koucheryavy Y, Balandin S, editors, Internet of Things, Smart Spaces, and Next Generation Networks and Systems - 19th International Conference, NEW2AN 2019, and 12th Conference, ruSMART 2019, Proceedings. Springer Verlag. 2019. p. 269-281. (Lecture Notes in Computer Science). https://doi.org/10.1007/978-3-030-30859-9_23

Feier C, Kuusisto A, Lutz C. **Rewritability in monadic disjunctive Datalog, Mmsnp, and expressive description logics**. Logical Methods in Computer Science. 2019;15(2):15:1-15:46. [https://doi.org/10.23638/LMCS-15\(2:15\)2019](https://doi.org/10.23638/LMCS-15(2:15)2019)

Wang T, Fan L, Wang H. **Simultaneously Learning Architectures and Features of Deep Neural Networks**. In Tetko IV, Karpov P, Theis F, Kurková V, editors, Artificial Neural Networks and Machine Learning – ICANN 2019: Deep Learning - 28th International Conference on Artificial Neural Networks, Proceedings. Springer Verlag. 2019. p. 275-287. (Lecture Notes in Computer Science). https://doi.org/10.1007/978-3-030-30484-3_23

Kiili K, Tuomi P. **Teaching educational game design: Expanding the game design mindset with instructional aspects**. In Liapis A, Yannakakis GN, Gentile M, Ninaus M, editors, Games and Learning Alliance- 8th International Conference, GALA 2019, Proceedings. Springer. 2019. p. 103-113. (Lecture Notes in Computer Science). https://doi.org/10.1007/978-3-030-34350-7_11

Gridin I, Pereida García C, Tuveri N, Brumley BB. **Triggerflow: Regression Testing by Advanced Execution Path Inspection**. In Maurice C, Giacinto G, Perdisci R, Almgren M, Perdisci R, editors, Detection of Intrusions and Malware, and Vulnerability Assessment - 16th International Conference, DIMVA 2019, Proceedings. Springer Verlag. 2019. p. 330-350. (Lecture Notes in Computer Science). https://doi.org/10.1007/978-3-030-22038-9_16

Pietilä I, Varsaluoma J, Väänänen K. **Understanding the digital and non-digital participation by the gaming youth.** In Lamas D, Loizides F, Nacke L, Petrie H, Winckler M, Zaphiris P, editors, *Human-Computer Interaction – INTERACT 2019 - 17th IFIP TC 13 International Conference, Proceedings*. Springer Verlag. 2019. p. 453-471. (Lecture Notes in Computer Science). https://doi.org/10.1007/978-3-030-29384-0_28

Chaudhary S, Schafeitel-Tähtinen T, Helenius M, Berki E. **Usability, security and trust in password managers: A quest for user-centric properties and features.** *Computer Science Review*. 2019;33:69-90. <https://doi.org/10.1016/j.cosrev.2019.03.002>

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>

Dehmer M, Chen Z, Emmert-Streib F, Shi Y, Tripathi S. **Graph measures with high discrimination power revisited: A random polynomial approach.** *Information Sciences*. 2018 Oct 1;467:407-414. <https://doi.org/10.1016/j.ins.2018.07.072>

Koivisto M, Laakkonen P, Lauri J. **NP-completeness results for partitioning a graph into total dominating sets.** *Theoretical Computer Science*. 2018 Jan 1. <https://doi.org/10.1016/j.tcs.2018.04.006>

Galinina O, Andreev S, Balandin S, Koucheryavy Y. **18th International Conference on Next Generation Teletraffic and Wired/Wireless Advanced Networks and Systems, NEW2AN 2018 and 11th Conference on Internet of Things and Smart Spaces, ruSMART 2018.** Springer Verlag, 2018. 720 p. (Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics)). <https://doi.org/10.1007/978-3-030-01168-0>

Pyattaev A, Solomitchii D, Ometov A. **3D folded loop UAV antenna design.** In *Wired/Wireless Internet Communications - 16th IFIP WG 6.2 International Conference, WWIC 2018, Proceedings*. Springer Verlag. 2018. p. 269-281. (Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics)). https://doi.org/10.1007/978-3-030-02931-9_22

Sanfilippo G, Galinina O, Andreev S, Pizzi S, Araniti G. **A Concise Review of 5G New Radio Capabilities for Directional Access at mmWave Frequencies.** In *Internet of Things, Smart Spaces, and Next Generation Networks and Systems - 18th International Conference, NEW2AN 2018, and 11th Conference, ruSMART 2018, Proceedings*. Springer Verlag. 2018. p. 340-354. (Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics)). https://doi.org/10.1007/978-3-030-01168-0_32

Cortés S, Solin A, Rahtu E, Kannala J. **ADVIO: An authentic dataset for visual-inertial odometry.** In *Computer Vision – ECCV 2018 - 15th European Conference, 2018, Proceedings*. Springer Verlag. 2018. p. 425-440. (Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics)). https://doi.org/10.1007/978-3-030-01249-6_26

Stepanov N, Matveev N, Galinina O, Turlikov A. **A Lower Bound on the Average Identification Time in a Passive RFID System.** In *Internet of Things, Smart Spaces, and Next Generation Networks and Systems - 18th International Conference, NEW2AN 2018, and 11th Conference, ruSMART 2018, Proceedings*. Springer Verlag. 2018. p. 524-534. (Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics)). https://doi.org/10.1007/978-3-030-01168-0_47

Astola J, Astola P, Stanković R, Tabus I. **An algebraic approach to reducing the number of variables of incompletely defined discrete functions.** *Journal of Multiple-Valued Logic and Soft Computing*. 2018;31(3):239-253.

Markova E, Moltchanov D, Sinitsyna A, Ivanova D, Filipova V, Gudkova I et al. **Analytical Models for Schedule-Based License Assisted Access (LAA) LTE Systems.** In *Internet of Things, Smart Spaces, and Next Generation Networks and Systems - 18th International Conference, NEW2AN 2018, and 11th Conference, ruSMART 2018, Proceedings*. Springer Verlag. 2018. p. 210-223. (Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics)). https://doi.org/10.1007/978-3-030-01168-0_20

Ponomarenko-Timofeev A, Semkin V, Masek P, Galinina O. **Characterizing mmWave Radio Propagation at 60 GHz in a Conference Room Scenario**. In Internet of Things, Smart Spaces, and Next Generation Networks and Systems - 18th International Conference, NEW2AN 2018, and 11th Conference, ruSMART 2018, Proceedings. Springer Verlag. 2018. p. 381-393. (Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics)). https://doi.org/10.1007/978-3-030-01168-0_35

Keranen M, Lauri J. **Computing minimum rainbow and strong rainbow colorings of block graphs**. Discrete Mathematics and Theoretical Computer Science. 2018;20(1). 22. <https://doi.org/10.23638/DMTCS-20-1-22>

Li Y, Yu L, Lin C, Zhao Y, Gabbouj M. **Convolutional neural network based inter-frame enhancement for 360-degree video streaming**. In Advances in Multimedia Information Processing – PCM 2018 - 19th Pacific-Rim Conference on Multimedia, 2018. Springer. 2018. p. 57-66. (Lecture Notes in Computer Science). https://doi.org/10.1007/978-3-030-00767-6_6

Pautasso C, (ed.), Sánchez-Figueroa F, (ed.), Systä K, (ed.), Rodríguez JMM, (ed.). **Current Trends in Web Engineering: ICWE 2018 International Workshops, MATWEP, EnWot, KD-WEB, WEOD, TourismKG, Cáceres, Spain, June 5, 2018, Revised Selected Papers**. Springer, 2018. 298 p. (Lecture Notes in Computer Science).

Stankovic RS, Astola J, Moraga C. **Gibbs Dyadic Differentiation on Groups - Evolution of the Concept**. In Computer Aided Systems Theory – EUROCAST 2017 - 16th International Conference, Revised Selected Papers. Springer Verlag. 2018. p. 229-237. (Lecture Notes in Computer Science). https://doi.org/10.1007/978-3-319-74727-9_27

Kannisto P, Hästbacka D, Marttinen A. **Information Exchange Architecture for Collaborative Industrial Ecosystem**. Information Systems Frontiers. 2018;1-16. <https://doi.org/10.1007/s10796-018-9877-0>

Luoto A, Systä K. **IoT Application Deployment Using Request-Response Pattern with MQTT**. In Current Trends in Web Engineering: ICWE 2017 International Workshops, Liquid Multi-Device Software and EnWoT, practi-O-web, NLPIT, SoWeMine, Rome, Italy, June 5-8, 2017, Revised Selected Papers. Vol. 10544. Springer Verlag. 2018. p. 48-60. (Lecture Notes in Computer Science). https://doi.org/10.1007/978-3-319-74433-9_4

Samuylov AK, Ivchenko AY, Orlov YN, Moltchanov DA, Bobrikova EV, Gaidamaka YV et al. **Kinetic Approach to Elasticity Analysis of D2D Links Quality Indicators Under Non-stationary Random Walk Mobility Model**. In Internet of Things, Smart Spaces, and Next Generation Networks and Systems - 18th International Conference, NEW2AN 2018, and 11th Conference, ruSMART 2018, Proceedings. Springer. 2018. p. 224-235. (Lecture Notes in Computer Science). https://doi.org/10.1007/978-3-030-01168-0_21

Thangavel S, Systä K. **Liquid Transfer of User Identity**. In Current Trends in Web Engineering - ICWE 2017 International Workshops, Liquid Multi-Device Software and EnWoT, practi-O-web, NLPIT, SoWeMine, Revised Selected Papers. Springer Verlag. 2018. p. 92-107. (Lecture Notes in Computer Science). https://doi.org/10.1007/978-3-319-74433-9_8

Aldaya AC, Brumley BB, Sarmiento AJC, Sánchez-Solano S. **Memory Tampering Attack on Binary GCD Based Inversion Algorithms**. International Journal of Parallel Programming. 2018;1-20. <https://doi.org/10.1007/s10766-018-0610-x>

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>

Bhattacharyya SS, Lilius J. **Model-Based Representations for Dataflow Schedules**. In Principles of Modeling. Springer Verlag. 2018. p. 88-105. (Lecture Notes in Computer Science). https://doi.org/10.1007/978-3-319-95246-8_6

Oliveira SMD, Bahrudeen MNM, Startceva S, Kandavalli V, Ribeiro AS. **Modeling and Engineering Promoters with Pre-defined RNA Production Dynamics in Escherichia Coli**. In Computational Methods in Systems Biology - 16th International Conference, CMSB 2018, Proceedings. Springer Verlag. 2018. p. 3-20. (Lecture Notes in Bioinformatics). https://doi.org/10.1007/978-3-319-99429-1_1

Schoeffmann K, (ed.), Chalidabhongse TH, (ed.), Ngo CW, (ed.), Aramvith S, (ed.), O'Connor NE, (ed.), Ho YS, (ed.) et al. **MultiMedia Modeling: 24th International Conference, MMM 2018, Bangkok, Thailand, February 5-7, 2018, Proceedings, Part I**. Springer, 2018. 648 p. (Lecture Notes in Computer Science). <https://doi.org/10.1007/978-3-319-73603-7>

Aramvith S, Ho YS, O'Connor NE, Chalidabhongse T, Schoeffmann K, Ngo CW et al. **MultiMedia Modeling: 24th International Conference, MMM 2018, Bangkok, Thailand, February 5-7, 2018, Proceedings, Part II**. Springer, 2018. 460 p. (Lecture Notes in Computer Science). <https://doi.org/10.1007/978-3-319-73600-6>

Dehmer M, Chen Z, Mowshowitz A, Jodlbauer H, Emmert-Streib F, Shi Y et al. **On the degeneracy of the Randić entropy and related graph measures**. Information Sciences. 2018. <https://doi.org/10.1016/j.ins.2018.11.011>

Chkirbene Z, Hamila R, Foufou S, Kiranyaz S, Gabbouj M. **Optimization on ports activation towards energy efficient data center networks**. In Ubiquitous Networking - 4th International Symposium, UNet 2018, Revised Selected Papers. Springer Verlag. 2018. p. 155-166. (Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics)). https://doi.org/10.1007/978-3-030-02849-7_14

D'Agostino AM, Ometov A, Pyattaev A, Andreev S, Araniti G. **Performance Limitations of Parsing Libraries: State-of-the-Art and Future Perspectives**. In Internet of Things, Smart Spaces, and Next Generation Networks and Systems - 18th International Conference, NEW2AN 2018, and 11th Conference, ruSMART 2018, Proceedings. Springer Verlag. 2018. p. 405-418. (Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics)). https://doi.org/10.1007/978-3-030-01168-0_37

Nurmi J, Niemelä MS. **PESTEL Analysis of Hacktivism Campaign Motivations**. In Secure IT Systems - 23rd Nordic Conference, NordSec 2018. Springer Verlag. 2018. p. 323-335. (Lecture Notes in Computer Science). https://doi.org/10.1007/978-3-030-03638-6_20

Galinina O, Balandin S, Andreev S, Koucheryavy Y. **Preface**. Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics). 2018;11118 LNCS:v-vi.

Astola H, Stanković R, Astola J. **Reduction of variables of index generation functions using linear and quadratic transformations**. Journal of Multiple-Valued Logic and Soft Computing. 2018;31(3):255-270.

Wahyudi A, Pekkola S, Janssen M. **Representational quality challenges of big data: insights from comparative case studies**. In Challenges and Opportunities in the Digital Era - 17th IFIP WG 6.11 Conference on e-Business, e-Services, and e-Society, I3E 2018, Proceedings. Springer Verlag. 2018. p. 520-538. (Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics)). https://doi.org/10.1007/978-3-030-02131-3_46

Curcio IDD, Naik D, Toukoma H, Zare A. **Subjective quality of spatially asymmetric omnidirectional stereoscopic video for streaming adaptation**. In Smart Multimedia - 1st International Conference, ICSM 2018, Revised Selected Papers. Springer. 2018. p. 417-428. (Lecture Notes in Computer Science). https://doi.org/10.1007/978-3-030-04375-9_36

Dehmer M, Emmert-Streib F, Shi Y. **Quantitative Graph Theory: A new branch of graph theory and network science**. Information Sciences. 2017 Dec 1;418-419:575-580. <https://doi.org/10.1016/j.ins.2017.08.009>

Dehmer M, Emmert-Streib F, Hu B, Shi Y, Stefu M, Tripathi S. **Highly unique network descriptors based on the roots of the permanental polynomial**. Information Sciences. 2017 Oct 1;408:176-181. <https://doi.org/10.1016/j.ins.2017.04.041>

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>

Homayouni M, Aflaki P, Hannuksela MM, Gabbouj M. **Row-interleaved sampling for depth-enhanced 3d video coding for polarized displays**. ACM TRANSACTIONS ON APPLIED PERCEPTION. 2017 Mar 1;14(3). 15. <https://doi.org/10.1145/3047409>

Hansen H. **Abstractions for transition systems with applications to stubborn sets**. In Gibson-Robinson T, Hopcroft P, Lazić R, editors, *Concurrency, Security, and Puzzles: Essays Dedicated to Andrew William Roscoe on the Occasion of His 60th Birthday*. Springer International Publishing. 2017. p. 104-123. (Lecture Notes in Computer Science). https://doi.org/10.1007/978-3-319-51046-0_6

Valmari A. **More stubborn set methods for process algebras**. In Gibson-Robinson T, Hopcroft P, Lazić R, editors, *Concurrency, Security, and Puzzles: Essays Dedicated to Andrew William Roscoe on the Occasion of His 60th Birthday*. Springer International Publishing. 2017. p. 246-271. (Lecture Notes in Computer Science). https://doi.org/10.1007/978-3-319-51046-0_13

Hildén E, Ojala J, Väänänen K. **A co-design study of digital service ideas in the bus context**. In *Human-Computer Interaction - INTERACT 2017 - 16th IFIP TC 13 International Conference, Proceedings*. Springer Verlag. 2017. p. 295-312. (Lecture Notes in Computer Science). https://doi.org/10.1007/978-3-319-67744-6_20

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>

Caballero D, Araya R, Kronholm H, Viiri J, Mansikkaniemi A, Lehesvuori S et al. **ASR in classroom today: Automatic visualization of conceptual network in science classrooms**. In *Data Driven Approaches in Digital Education - 12th European Conference on Technology Enhanced Learning, EC-TEL 2017, Proceedings*. Springer Verlag. 2017. p. 541-544. (Lecture Notes in Computer Science). https://doi.org/10.1007/978-3-319-66610-5_58

Devos M, Masek P. **Battery monitoring within industry 4.0 landscape: Solution as a service (SaaS) for industrial power unit systems**. In *Internet of Things, Smart Spaces, and Next Generation Networks and Systems - 17th International Conference, NEW2AN 2017, 10th Conference, ruSMART 2017, 3rd Workshop NsCC 2017, Proceedings*. Springer Verlag. 2017. p. 40-52. (Lecture Notes in Computer Science). https://doi.org/10.1007/978-3-319-67380-6_4

Ivchenko A, Orlov Y, Samouylov A, Molchanov D, Gaidamaka Y. **Characterizing time-dependent variance and coefficient of variation of SIR in D2D connectivity**. In *Internet of Things, Smart Spaces, and Next Generation Networks and Systems - 17th International Conference, NEW2AN 2017, 10th Conference, ruSMART 2017, 3rd Workshop NsCC 2017, Proceedings*. Springer Verlag. 2017. p. 526-535. (Lecture Notes in Computer Science). https://doi.org/10.1007/978-3-319-67380-6_49

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>

Thankachan B, Sharma S, Turunen M, Linna J, Väätäjä H, Kortekaas R et al. **ICT based interventions for anganwadi healthcare workers in Mumbai**. In *Human-Computer Interaction - INTERACT 2017 - 16th IFIP TC 13 International Conference, Proceedings*. Springer Verlag. 2017. p. 485-487. (Lecture Notes in Computer Science). https://doi.org/10.1007/978-3-319-68059-0_56

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>

Galinina O, (ed.), Andreev S, (ed.), Balandin S, (ed.), Koucheryavy Y, (ed.). **Internet of Things, Smart Spaces, and Next Generation Networks and Systems: 17th International Conference, NEW2AN 2017, 10th Conference, ruSMART 2017, Third Workshop NsCC 2017, St. Petersburg, Russia, August 28–30, 2017, Proceedings**. Springer Verlag, 2017. (Lecture Notes in Computer Science). <https://doi.org/10.1007/978-3-319-67380-6>

Abdollahzadeh A, Acar E, Peltonen S, Ruotsalainen U. **Local adaptive wiener filtering for class averaging in single particle reconstruction**. In Image Analysis - 20th Scandinavian Conference, SCIA 2017, Proceedings. Springer Verlag. 2017. p. 233-244. (Lecture Notes in Computer Science). https://doi.org/10.1007/978-3-319-59129-2_20

Yuan J, Ma W, Zhu P, Egiazarian K. **Multi-task Deep Face Recognition**. In Biometric Recognition - 12th Chinese Conference, CCBR 2017, Proceedings. Springer Verlag. 2017. p. 183-190. (Lecture Notes in Computer Science). https://doi.org/10.1007/978-3-319-69923-3_20

Koivisto M, Laakkonen P, Lauri J. **NP-completeness results for partitioning a graph into total dominating sets**. In Computing and Combinatorics - 23rd International Conference, COCOON 2017, Proceedings. Springer Verlag. 2017. p. 333-345. (Lecture Notes in Computer Science). https://doi.org/10.1007/978-3-319-62389-4_28

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>

Sharma S, Linna J, Thankachan B, Turunen M, Väättäjä H, Kallioniemi P et al. **Parental perspectives towards education technology in low-income urban households**. In Human-Computer Interaction - INTERACT 2017 - 16th IFIP TC 13 International Conference, Proceedings. Springer Verlag. 2017. p. 501-503. (Lecture Notes in Computer Science). https://doi.org/10.1007/978-3-319-68059-0_60

Melekhov I, Ylioinas J, Kannala J, Rahtu E. **Relative camera pose estimation using convolutional neural networks**. In Advanced Concepts for Intelligent Vision Systems - 18th International Conference, ACIVS 2017, Proceedings. Springer Verlag. 2017. p. 675-687. (Lecture Notes in Computer Science). https://doi.org/10.1007/978-3-319-70353-4_57

Yuan J, Ma W, Zhu P, Egiazarian K. **Robust Deep Face Recognition with Label Noise**. In Neural Information Processing - 24th International Conference, ICONIP 2017, Proceedings. Springer Verlag. 2017. p. 593-602. (Lecture Notes in Computer Science). https://doi.org/10.1007/978-3-319-70096-0_61

Nurminen M, Leppänen L, Väättäjä H, Ihantola P. **Search of the emotional design effect in programming revised**. In Data Driven Approaches in Digital Education - 12th European Conference on Technology Enhanced Learning, EC-TEL 2017, Proceedings. Springer Verlag. 2017. p. 434-440. (Lecture Notes in Computer Science). https://doi.org/10.1007/978-3-319-66610-5_39

Valmari A, Hansen H. **Stubborn set intuition explained**. In Transactions on Petri Nets and Other Models of Concurrency XII. Springer Verlag. 2017. p. 140-165. (Lecture Notes in Computer Science). https://doi.org/10.1007/978-3-662-55862-1_7

Valmari A. **Stubborn sets with frozen actions**. In Reachability Problems - 11th International Workshop, RP 2017, Proceedings. Springer Verlag. 2017. p. 160-175. (Lecture Notes in Computer Science). https://doi.org/10.1007/978-3-319-67089-8_12

Kannisto J, Harju J. **The time will tell on you: Exploring information leaks in SSH public key authentication**. In Network and System Security: 11th International Conference, NSS 2017, Helsinki, Finland, August 21-23, 2017, Proceedings. Springer. 2017. p. 301-314. (Lecture Notes in Computer Science). https://doi.org/10.1007/978-3-319-64701-2_22

Orlov Y, Kirina-Lilinskaya E, Samuylov A, Ometov A, Moltchanov D, Gaimamaka Y et al. **Time-dependent SIR analysis in shopping malls using fractal-based mobility models**. In Wired/Wireless Internet Communications - 15th IFIP WG 6.2 International Conference, WWIC 2017, Proceedings. Springer. 2017. p. 16-25. (Lecture Notes in Computer Science). https://doi.org/10.1007/978-3-319-61382-6_2

Nurmi J, Niemelä MS. **Tor de-anonymisation techniques**. In Network and System Security: 11th International Conference, NSS 2017, Helsinki, Finland, August 21-23, 2017, Proceedings. Springer. 2017. p. 657-671. (Lecture Notes in Computer Science). https://doi.org/10.1007/978-3-319-64701-2_52

Koucheryavy Y, (ed.), Mamatas L, (ed.), Matta I, (ed.), Ometov A, (ed.), Papadimitriou P, (ed.). **Wired/Wireless Internet Communications: 15th IFIP WG 6.2 International Conference, WWIC 2017, St. Petersburg, Russia, June 21–23, 2017, Proceedings**. Springer, 2017. (Lecture Notes in Computer Science). <https://doi.org/10.1007/978-3-319-61382-6>

Rauti S, Lauren S, Uitto J, Hosseinzadeh S, Ruohonen J, Hyrynsalmi S et al. **A survey on internal interfaces used by exploits and implications on interface diversification**. In Secure IT Systems - 21st Nordic Conference, NordSec 2016, Proceedings. Vol. 10014 LNCS. Springer Verlag. 2016. p. 152-168. (Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics)). https://doi.org/10.1007/978-3-319-47560-8_10

Nguyen A, Komarov M, Moltchanov D. **Coverage and network requirements of a "Big Data" flash crowd monitoring system using users' devices**. In Internet of Things, Smart Spaces, and Next Generation Networks and Systems - 16th International Conference, NEW2AN 2016 and 9th Conference, ruSMART 2016, Proceedings. Springer International Publishing AG. 2016. p. 372-382. (Lecture Notes in Computer Science). https://doi.org/10.1007/978-3-319-46301-8_31

Zikratov I, Maslennikov O, Lebedev I, Ometov A, Andreev S. **Dynamic trust management framework for robotic multi-agent systems**. In Internet of Things, Smart Spaces, and Next Generation Networks and Systems - 16th International Conference, NEW2AN 2016 and 9th Conference, ruSMART 2016, Proceedings. Vol. 9870. Springer International Publishing AG. 2016. p. 339-348. (Lecture Notes in Computer Science). https://doi.org/10.1007/978-3-319-46301-8_28

Sopin E, Samouylov K, Vikhrova O, Kovalchukov R, Moltchanov D, Samuylov A. **Evaluating a case of downlink uplink decoupling using queuing system with random requirements**. In Internet of Things, Smart Spaces, and Next Generation Networks and Systems - 16th International Conference, NEW2AN 2016 and 9th Conference, ruSMART 2016, Proceedings. Springer International Publishing. 2016. p. 440-450. (Lecture Notes in Computer Science). https://doi.org/10.1007/978-3-319-46301-8_37

Moltchanov D, Kluchev A, Kustarev P, Borunova K, Platonov A. **Intra-CPU traffic estimation and implications on networks-on-chip research**. In Internet of Things, Smart Spaces, and Next Generation Networks and Systems - 16th International Conference, NEW2AN 2016 and 9th Conference, ruSMART 2016, Proceedings. Springer International Publishing AG. 2016. p. 453-464. (Lecture Notes in Computer Science). https://doi.org/10.1007/978-3-319-46301-8_38

Ometov A, Andreev S, Levina A, Bezzateev S. **Optimizing network-assisted WLAN systems with aggressive channel utilization**. In Internet of Things, Smart Spaces, and Next Generation Networks and Systems - 16th International Conference, NEW2AN 2016 and 9th Conference, ruSMART 2016, Proceedings. Springer International Publishing AG. 2016. p. 217-229. (Lecture Notes in Computer Science). https://doi.org/10.1007/978-3-319-46301-8_18

Devillers R, Valmari A, Penczek W. **Application and theory of Petri nets and other models of concurrency: Special issue of selected papers from Petri Nets 2015**. Fundamenta Informaticae. 2016 Sep 13;146(1):v-vi. <https://doi.org/10.3233/FI-2016-1373>

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>

Emmert-Streib F, Dehmer M, Shi Y. **Fifty years of graph matching, network alignment and network comparison**. Information Sciences. 2016 Jun 10;346-347:180-197. <https://doi.org/10.1016/j.ins.2016.01.074>

Piipponen A, Valmari A. **Constructing Minimal Coverability Sets**. Fundamenta Informaticae. 2016 Mar 4;143(3-4):393-414. <https://doi.org/10.3233/FI-2016-1319>

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>

Kuusinen K. **Are software developers just users of development tools? Assessing developer experience of a graphical user interface designer.** In Human-Centered and Error-Resilient Systems Development - IFIP WG 13.2/13.5 Joint Working Conference 6th International Conference on Human-Centered Software Engineering, HCSE 2016 and 8th International Conference on Human Error, Safety, and System Development, HESSD 2016, Proceedings. Springer Verlag. 2016. p. 215-233. (Lecture Notes in Computer Science). https://doi.org/10.1007/978-3-319-44902-9_14

Salo K, Giova D, Mikkonen T. **Backend infrastructure supporting audio augmented reality and storytelling.** In Human Interface and the Management of Information: Applications and Services: 18th International Conference, HCI International 2016 Toronto, Canada, July 17-22, 2016. Proceedings, Part II. Springer Verlag. 2016. p. 325-335. (Lecture Notes in Computer Science). https://doi.org/10.1007/978-3-319-40397-7_31

Lemmetti J. **Construction of enterprise architecture in discourses within the public sector.** In Electronic Government - 15th IFIP WG 8.5 International Conference, EGOV 2016, Proceedings. Springer Verlag. 2016. p. 287-298. (Lecture Notes in Computer Science). https://doi.org/10.1007/978-3-319-44421-5_23

Brous P, Janssen M, Vilminko-Heikkinen R. **Coordinating decision-making in data management activities: A systematic review of data governance principles.** In Electronic Government - 15th IFIP WG 8.5 International Conference, EGOV 2016, Proceedings. Springer Verlag. 2016. p. 115-125. (Lecture Notes in Computer Science). https://doi.org/10.1007/978-3-319-44421-5_9

Yaman SG, Sauvola T, Riungu-Kalliosaari L, Hokkanen L, Kuvaja P, Oivo M et al. **Customer involvement in continuous deployment: A systematic literature review.** In Requirements Engineering: Foundation for Software Quality: 22nd International Working Conference, REFSQ 2016, Gothenburg, Sweden, March 14-17, 2016, Proceedings. Springer Verlag. 2016. p. 249-265. (Lecture Notes in Computer Science). https://doi.org/10.1007/978-3-319-30282-9_18

Valmari A, Vogler W. **Fair testing and stubborn sets.** In Model Checking Software: 23rd International Symposium, SPIN 2016, Co-located with ETAPS 2016, Eindhoven, The Netherlands, April 7-8, 2016, Proceedings. Springer Verlag. 2016. p. 225-243. (Lecture Notes in Computer Science). https://doi.org/10.1007/978-3-319-32582-8_16

Bhattacharya S, Fan L, Babahajiani P, Gabbouj M. **Global scale integral volumes.** In Computer Vision - ECCV 2016 Workshops, Proceedings. Vol. 9913. Springer International Publishing. 2016. p. 192-204. (Lecture Notes in Computer Science). https://doi.org/10.1007/978-3-319-46604-0_14

Voutilainen JP, Mattila AL, Systä K, Mikkonen T. **HTML5-based mobile agents for Web-of-Things.** Informatica. 2016;40(1):43-51.

Aghababaeetafreschi 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>

Krivtsova I, Lebedev I, Sukhoparov M, Bazhayev N, Zikratov I, Ometov A et al. **Implementing a broadcast storm attack on a mission-critical wireless sensor network.** In Wired/Wireless Internet Communications: 14th IFIP WG 6.2 International Conference, WWIC 2016, Thessaloniki, Greece, May 25-27, 2016, Proceedings. Vol. 9674. Springer Verlag. 2016. p. 297-308. (Lecture Notes in Computer Science). https://doi.org/10.1007/978-3-319-33936-8_23

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>

Mäki-Lohiluoma P, Hellsten P, Pekkola S. **IS acquisition characteristics in the public sector.** In Electronic Government - 15th IFIP WG 8.5 International Conference, EGOV 2016, Proceedings. Springer Verlag. 2016. p. 164-175. (Lecture Notes in Computer Science). https://doi.org/10.1007/978-3-319-44421-5_13

Salo K, Bauters M, Mikkonen T. **Mobile soundscape mixer – ready for action.** In Mobile Web and Intelligent Information Systems - 13th International Conference, MobiWIS 2016, Proceedings. Springer Verlag. 2016. p. 18-30. (Lecture Notes in Computer Science). https://doi.org/10.1007/978-3-319-44215-0_2

Couceiro M, Lehtonen E. **On the arity gap of finite functions: Results and applications**. Journal of Multiple-Valued Logic and Soft Computing. 2016;27(2-3):193-207.

Peuhkurinen A, Fedorov A, Systä K. **Operating system compositor and hardware usage to enhance graphical performance in web runtimes**. In Web Engineering: 16th International Conference, ICWE 2016, Lugano, Switzerland, June 6-9, 2016. Proceedings. Springer Verlag. 2016. p. 381-388. (Lecture Notes in Computer Science). https://doi.org/10.1007/978-3-319-38791-8_23

Oksa P, Loula P. **Private cloud deployment model in open-source mobile robots ecosystem**. In Towards Autonomous Robotic Systems: 17th Annual Conference, TAROS 2016, Sheffield, UK, June 26--July 1, 2016, Proceedings. Springer Verlag. 2016. p. 239-248. (Lecture Notes in Computer Science). https://doi.org/10.1007/978-3-319-40379-3_24

Mäenpää H, Kojo T, Munezero M, Fagerholm F, Kilamo T, Nurminen M et al. **Supporting management of hybrid OSS communities - A stakeholder analysis approach**. In Product-Focused Software Process Improvement - 17th International Conference, PROFES 2016, Proceedings. Springer Verlag. 2016. p. 102-108. (Lecture Notes in Computer Science). https://doi.org/10.1007/978-3-319-49094-6_7

Voutilainen J-P, Mikkonen T, Systä K. **Synchronizing application state using virtual DOM trees**. In Current Trends in Web Engineering: ICWE 2016 International Workshops DUI, TELERISE, SoWeMine, and Liquid Web, Revised Selected Papers. Springer Verlag. 2016. p. 142-154. (Lecture Notes in Computer Science). https://doi.org/10.1007/978-3-319-46963-8_12

Komarov M, Moltchanov D. **System design and analysis of UAV-assisted BLE wireless sensor systems**. In Wired/Wireless Internet Communications: 14th IFIP WG 6.2 International Conference, WWIC 2016, Thessaloniki, Greece, May 25-27, 2016, Proceedings. Springer Verlag. 2016. p. 284-296. (Lecture Notes in Computer Science). https://doi.org/10.1007/978-3-319-33936-8_22

Goncalves N, Oliveira SMD, Kandavalli VK, Fonseca JM, S. Ribeiro A. **Temperature dependence of leakiness of transcription repression mechanisms of Escherichia coli**. In Computational Methods in Systems Biology - 14th International Conference, CMSB 2016. Springer Verlag. 2016. p. 341-342. (Lecture Notes in Computer Science).

Terho H, Suonsyrjä S, Systä K. **The developers dilemma: Perfect product development or fast business validation?** In Product-Focused Software Process Improvement - 17th International Conference, PROFES 2016, Proceedings. Springer Verlag. 2016. p. 571-579. (Lecture Notes in Computer Science). https://doi.org/10.1007/978-3-319-49094-6_42

Jääskeläinen A. **Towards model construction based on test cases and GUI extraction**. In Testing Software and Systems - 28th IFIP WG 6.1 International Conference, ICTSS 2016, Proceedings. Springer Verlag. 2016. p. 225-230. (Lecture Notes in Computer Science). https://doi.org/10.1007/978-3-319-47443-4_15

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>

Ahmadi R, Leino KRM, Nummenmaa J. **Automatic verification of Dafny programs with traits**. In Proceedings for the 17th Workshop on Formal Techniques for Java-like Programs, FTfJP 2015: co-located with ECOOP 2015. Association for Computing Machinery, Inc. 2015. a4 <https://doi.org/10.1145/2786536.2786542>

Vagharshakyan S, Durmush A, Suominen O, Bregovic R, Gotchev A. **Accuracy evaluation of a linear positioning system for light field capture**. In Intelligent Information and Database Systems: 7th Asian Conference, ACIIDS 2015, Bali, Indonesia, March 23-25, 2015, Proceedings, Part II. Springer Verlag. 2015. p. 388-397. (Lecture Notes in Computer Science). https://doi.org/10.1007/978-3-319-15705-4_38

Arnab S, Ger PM, Lim T, Lameris P, Hendrix M, Kiili K et al. **A conceptual model towards the scaffolding of learning experience**. In Third International Conference, GALA 2014, Bucharest, Romania, July 2-4, 2014. Vol. 9221. Springer Verlag. 2015. p. 83-96. (Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence

and Lecture Notes in Bioinformatics)). https://doi.org/10.1007/978-3-319-22960-7_9

Ponomarenko N, Lukin V, Astola J, Egiazarian K. **Analysis of HVS-metrics' properties using color image database TID2013**. In *Advanced Concepts for Intelligent Vision Systems: 16th International Conference, ACIVS 2015, Catania, Italy, October 26-29, 2015. Proceedings*. Springer Verlag. 2015. p. 613-624. (Lecture Notes in Computer Science). https://doi.org/10.1007/978-3-319-25903-1_53

Devillers R, (ed.), Valmari A, (ed.). **Application and Theory of Petri Nets and Concurrency: 36th International Conference, PETRI NETS 2015 Brussels, Belgium, June 21-26, 2015 Proceedings**. Springer Verlag, 2015. (Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics)). <https://doi.org/10.1007/978-3-319-19488-2>

Chaudhary S, Li L, Berki E, Helenius M, Kela J, Turunen M. **Applying finite state process algebra to formally specify a computational model of security requirements in the key2phone-mobile access solution**. In *Lecture Notes in Computer Science*. Springer Verlag. 2015. p. 128-145. (Lecture Notes in Computer Science). https://doi.org/10.1007/978-3-319-19458-5_9

Boström P, Heikkilä M, Huova M, Waldèn M, Linjama M. **Bayesian statistical analysis for performance evaluation in real-time control systems**. In *Quantitative Evaluation of Systems: 12th International Conference, QEST 2015, Madrid, Spain, September 1-3, 2015, Proceedings*. Vol. 9259. Springer Verlag. 2015. p. 312-328. (Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics)). https://doi.org/10.1007/978-3-319-22264-6_20

Brumley BB. **Cache storage attacks**. In *Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics)*. Springer Verlag. 2015. p. 22-34. (Lecture Notes in Computer Science). https://doi.org/10.1007/978-3-319-16715-2_2

Murthy GR, Saramäki T. **Complex transforms**. In *Mining Intelligence and Knowledge Exploration: Third International Conference, MIKE 2015, Hyderabad, India, December 9-11, 2015, Proceedings*. Springer Verlag. 2015. p. 382-391. (Lecture Notes in Computer Science). https://doi.org/10.1007/978-3-319-26832-3_36

Kannisto J, Heikkinen S, Slavov K, Harju J. **Delayed key exchange for constrained smart devices**. In *Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics)*. Springer Verlag. 2015. p. 12-26. (Lecture Notes in Computer Science). https://doi.org/10.1007/978-3-662-46338-3_2

Lihavainen E, Mäkelä J, Spelbrink JN, Ribeiro AS. **Detecting and tracking the tips of fluorescently labeled mitochondria in U2OS cells**. In *Image Analysis and Processing — ICIAP 2015: 18th International Conference, Genoa, Italy, September 7-11, 2015, Proceedings, Part II*. Vol. 9280. Springer Verlag. 2015. p. 363-372. (Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics)). https://doi.org/10.1007/978-3-319-23234-8_34

Rauti S, Laurén S, Hosseinzadeh S, Mäkelä JM, Hyrynsalmi S, Leppänen V. **Diversification of system calls in linux binaries**. In *Trusted Systems - 6th International Conference, INTRUST 2014, Revised Selected Papers*. Springer Verlag. 2015. p. 15-35. (Lecture Notes in Computer Science). https://doi.org/10.1007/978-3-319-27998-5_2

Rama Murthy G, Gabbouj M. **Existence and synthesis of complex hopfield type associative memories**. In *Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics)*. Springer Verlag. 2015. p. 356-369. (Lecture Notes in Computer Science). https://doi.org/10.1007/978-3-319-19222-2_30

Mehta R, Günther M, Marcel S. **Gender classification by LUT based boosting of overlapping block patterns**. In *Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics)*. Springer Verlag. 2015. p. 530-542. (Lecture Notes in Computer Science). https://doi.org/10.1007/978-3-319-19665-7_45

Turunen M, Sonntag D, Engelbrecht K-P, Olsson T, Schnelle-Walka D, Lucero A. **Interaction and humans in internet of things**. In Lecture Notes in Computer Science. Springer Verlag. 2015. p. 633-636. (Lecture Notes in Computer Science). https://doi.org/10.1007/978-3-319-22723-8_80

Räihä KJ. **Life in the fast lane: Effect of language and calibration accuracy on the speed of text entry by gaze**. In Human-Computer Interaction – INTERACT 2015 - 15th IFIP TC 13 International Conference, Proceedings. Vol. 9296. Springer Verlag. 2015. p. 402-417. (Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics)). https://doi.org/10.1007/978-3-319-22701-6_30

Yang H, Duan L, Dong G, Nummenmaa J, Tang C, Li X. **Mining itemset-based distinguishing sequential patterns with gap constraint**. In Database Systems for Advanced Applications - 20th International Conference, DASFAA 2015, Proceedings Hanoi, Vietnam, April 20-23, 2015 Proceedings, Part I. Vol. 9049. Springer Verlag. 2015. p. 39-54. (Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics)). https://doi.org/10.1007/978-3-319-18120-2_3

Ponomarenko N, Lukin V, Astola J, Egiazarian K. **Non-local sigma filter**. In Image Analysis and Processing — ICIAP 2015: 18th International Conference, Genoa, Italy, September 7-11, 2015, Proceedings, Part II. Vol. 9280. Springer Verlag. 2015. p. 483-493. (Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics)). https://doi.org/10.1007/978-3-319-23234-8_45

Stanković RS, Astola JT, Moraga C, Stanković M, Gajić D. **Remarks on characterization of bent functions in terms of gibbs dyadic derivatives**. In Computer Aided Systems Theory – EUROCAST 2015: 15th International Conference, Las Palmas de Gran Canaria, Spain, February 8-13, 2015, Revised Selected Papers. Springer. 2015. p. 632-639. (Lecture Notes in Computer Science). https://doi.org/10.1007/978-3-319-27340-2_78

Drgas S, Virtanen T. **Speaker verification using adaptive dictionaries in non-negative spectrogram deconvolution**. In Latent Variable Analysis and Signal Separation: 12th International Conference, LVA/ICA 2015, Liberec, Czech Republic, August 25-28, 2015, Proceedings. Vol. 9237. Springer Verlag. 2015. p. 462-469. (Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics)). https://doi.org/10.1007/978-3-319-22482-4_54

Rusu C, Astola J. **The Extended 1-D (One-Dimensional) Discrete Phase Retrieval Problem**. In Computer Aided Systems Theory – EUROCAST 2015: 15th International Conference, Las Palmas de Gran Canaria, Spain, February 8-13, 2015, Revised Selected Papers. Springer. 2015. p. 640-647. (Lecture Notes in Computer Science). https://doi.org/10.1007/978-3-319-27340-2_79

Alanne A, Hellsten P, Pekkola S, Saarenpää I. **Three positives make one negative: Public sector is procurement**. In Electronic Government: 14th IFIP WG 8.5 International Conference, EGOV 2015, Thessaloniki, Greece, August 30 -- September 2, 2015, Proceedings. Vol. 9248. Springer Verlag. 2015. p. 321-333. (Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics)). https://doi.org/10.1007/978-3-319-22479-4_24

Mikkonen T, Systä K, Pautasso C. **Towards liquid web applications**. In Engineering the Web in the Big Data Era: 15th International Conference, ICWE 2015, Rotterdam, The Netherlands, June 23-26, 2015, Proceedings. Springer Verlag. 2015. p. 134-143. (Lecture Notes in Computer Science). https://doi.org/10.1007/978-3-319-19890-3_10

Ziaei Z, Oftadeh R, Mattila J. **Vision-based trajectories planning for four wheels independently steered mobile robots with maximum allowable velocities**. In Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics). Vol. 9287. Springer Verlag. 2015. p. 303-309. (Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics)). https://doi.org/10.1007/978-3-319-22416-9_34

Dehmer M, Emmert-Streib F, Grabner M. **A computational approach to construct a multivariate complete graph invariant**. Information Sciences. 2014 Mar 1;260:200-208. <https://doi.org/10.1016/j.ins.2013.11.008>

- Pakkanen T, Raisamo R, Surakka V. **Audio-haptic car navigation interface with rhythmic tactons**. In Haptics: Neuroscience, Devices, Modeling, and Applications - 9th International Conference, EuroHaptics 2014, Proceedings. Vol. 8618. Springer Verlag. 2014. p. 208-215. (Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics)). https://doi.org/10.1007/978-3-662-44193-0_27
- Kangas J, Rantala J, Akkil D, Isokoski P, Majaranta P, Raisamo R. **Delayed haptic feedback to gaze gestures**. In Haptics: Neuroscience, Devices, Modeling, and Applications - 9th International Conference, EuroHaptics 2014, Proceedings. Vol. 8618. Springer Verlag. 2014. p. 25-31. (Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics)). https://doi.org/10.1007/978-3-662-44193-0_4
- Altarawneh R, Steiner M, Taibi D, Humayoun SR, Liggesmeyer P. **Does visualization speed up the safety analysis process?** In Computer Safety, Reliability, and Security - SAFECOMP 2014 Workshops: ASCoMS, DECSoS, DEVVARTS, ISSE, ReSA4CI, SASSUR, Proceedings. Vol. 8696 LNCS. Springer Verlag. 2014. p. 431-443. (Lecture Notes in Computer Science). https://doi.org/10.1007/978-3-319-10557-4_47
- Hamari J, Koivisto J, Pakkanen T. **Do persuasive technologies persuade? - A review of empirical studies**. In Persuasive Technology - 9th International Conference, PERSUASIVE 2014, Proceedings. Vol. 8462 LNCS. Springer Verlag. 2014. p. 118-136. (Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics)). https://doi.org/10.1007/978-3-319-07127-5_11
- Karvonen H, Koskinen H, Tokkonen H, Hakulinen J. **Evaluation of user experience goal fulfillment: Case remote operator station**. In Virtual, Augmented and Mixed Reality: Applications of Virtual and Augmented Reality - 6th International Conference, VAMR 2014, Held as Part of HCI International 2014, Proceedings. PART 2 ed. Vol. 8526 LNCS. Springer Verlag. 2014. p. 366-377. (Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics); PART 2). https://doi.org/10.1007/978-3-319-07464-1_34
- Abukwaik H, Taibi D, Rombach D. **Interoperability-related architectural problems and solutions in information systems: A scoping study**. In Software Architecture - 8th European Conference, ECSA 2014, Proceedings. Springer Verlag. 2014. p. 308-323. (Lecture Notes in Computer Science). https://doi.org/10.1007/978-3-319-09970-5_27
- Nyländén T, Boutellier J, Nikunen K, Hannuksela J, Silvén O. **Low-Power Reconfigurable Miniature Sensor Nodes for Condition Monitoring**. International Journal of Parallel Programming. 2014;43(1):3-23. <https://doi.org/10.1007/s10766-013-0302-5>
- Wang W, Duan L, Nummenmaa J, Deng S, Li Z, Yang H et al. **Mining frequent closed sequential patterns with non-user-defined gap constraints**. Lecture Notes in Computer Science. 2014;8933:55-70.
- Iosifidis A, Tefas A, Pitas I. **Multi-view regularized extreme learning machine for human action recognition**. In Artificial Intelligence: Methods and Applications: 8th Hellenic Conference on AI, SETN 2014, Ioannina, Greece, May 15-17, 2014. Proceedings. Vol. 8445. Springer Verlag. 2014. p. 84-94. (Lecture Notes in Computer Science). https://doi.org/10.1007/978-3-319-07064-3_7
- McAllister J, Guevorkian D, Jeschke H, Sima M. **Special Issue on Embedded Computer Systems: Architectures, Modeling and Simulation**. International Journal of Parallel Programming. 2014;43(1). <https://doi.org/10.1007/s10766-014-0321-x>
- 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>
- Lylykangas J, Surakka V, Rantala J, Raisamo R. **Intuitiveness of vibrotactile speed regulation cues**. ACM TRANSACTIONS ON APPLIED PERCEPTION. 2013 Oct;10(4). 24. <https://doi.org/10.1145/2536764.2536771>
- 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>

Väättäjä H, Sirkkunen E, Ahvenainen M. **A field trial on mobile crowdsourcing of news content: Factors influencing participation.** In Human-Computer Interaction, INTERACT 2013, 14th IFIP TC 13 International Conference, Cape Town, South Africa, September 2-6, 2013, Proceedings, Part III. PART 3 ed. Vol. 8119 LNCS. Berlin, Germany: Springer. 2013. p. 54-73. (Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics); PART 3). https://doi.org/10.1007/978-3-642-40477-1_4

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>

Thanisch P, Nummenmaa J, Niemi T, Niinimäki M. **Cell-at-a-time approach to lazy evaluation of dimensional aggregations .** In Data Warehousing and Knowledge Discovery - 15th International Conference, DaWaK 2013, Proceedings. Vol. 8057 LNCS. 2013. p. 349-358. (Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics)). https://doi.org/10.1007/978-3-642-40131-2_31

Hakulinen J, Turunen M, Heimonen T, Keskinen T, Sand A, Paavilainen J et al. **Creating immersive audio and lighting based physical exercise games for schoolchildren.** In Advances in Computer Entertainment - 10th International Conference, ACE 2013, Proceedings. Vol. 8253 LNCS. 2013. p. 308-319. (Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics)). https://doi.org/10.1007/978-3-642-03161-3_22

Heimonen T, Hakulinen J, Turunen M, Jokinen JPP, Keskinen T, Raisamo R. **Designing gesture-based control for factory automation.** In Human-Computer Interaction, INTERACT 2013 - 14th IFIP TC 13 International Conference, Proceedings. PART 2 ed. Vol. 8118 LNCS. 2013. p. 202-209. (Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics); PART 2). https://doi.org/10.1007/978-3-642-40480-1_13

Pajarinen J, Peltonen J. **Expectation maximization for average reward decentralized POMDPs.** In Machine Learning and Knowledge Discovery in Databases - European Conference, ECML PKDD 2013, Proceedings. PART 1 ed. Vol. 8188 LNAI. 2013. p. 129-144. (Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics); PART 1). https://doi.org/10.1007/978-3-642-40988-2_9

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>

Vanhala T, Surakka V, Curgeon M, Martin JC. **Voluntary facial activations regulate physiological arousal and subjective experiences during virtual social stimulation.** ACM TRANSACTIONS ON APPLIED PERCEPTION. 2012 Mar;9(1). 1. <https://doi.org/10.1145/2134203.2134204>

Pakkanen T, Raisamo R, Surakka V. **Comparison of extensive vs. confirmation haptic interfaces with two levels of disruptive tasks.** Lecture Notes in Computer Science. 2012;7282 LNCS(PART 1):383-394. https://doi.org/10.1007/978-3-642-31401-8_35

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>

Nukarinen T, Raisamo R, Pystynen J, Mäkinen E. **NonVisNavi: Non-visual mobile navigation application for pedestrians.** Lecture Notes in Computer Science. 2012;7283 LNCS(PART 2):214-217. https://doi.org/10.1007/978-3-642-31404-9_39

Raisamo R, Nukarinen T, Pystynen J, Mäkinen E, Kildal J. **Orientation inquiry: A new haptic interaction technique for non-visual pedestrian navigation.** Lecture Notes in Computer Science. 2012;7283 LNCS(PART 2):139-144. https://doi.org/10.1007/978-3-642-31404-9_24

Brumley B, Barbosa M, Page D, Vercauteren F. **Practical realisation and elimination of an ECC-related software bug attack.** In Topics in Cryptology, CT-RSA 2012 - The Cryptographers' Track at the RSA Conference 2012, Proceedings. Vol. 7178 LNCS. 2012. p. 171-186. (Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial

Intelligence and Lecture Notes in Bioinformatics)). https://doi.org/10.1007/978-3-642-27954-6_11

Brumley BB. **Secure and fast implementations of two involution ciphers**. In Information Security Technology for Applications - 15th Nordic Conference on Secure IT Systems, NordSec 2010, Revised Selected Papers. Vol. 7127 LNCS. 2012. p. 269-282. (Lecture Notes in Computer Science). https://doi.org/10.1007/978-3-642-27937-9_19

Keskinen T, Heimonen T, Turunen M, Rajaniemi JP, Kauppinen S. **SymbolChat: Picture-based communication platform for users with intellectual disabilities**. In Computers Helping People with Special Needs - 13th International Conference, ICCHP 2012, Proceedings. PART 2 ed. Vol. 7383 LNCS. 2012. p. 279-286. (Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics); PART 2). https://doi.org/10.1007/978-3-642-31534-3_43

Keskinen T, Turunen M, Raisamo R, Evreinov G, Haverinen E. **Utilizing haptic feedback in drill rigs**. Lecture Notes in Computer Science. 2012;7283 LNCS(PART 2):73-78. https://doi.org/10.1007/978-3-642-31404-9_13

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>

Pursiainen S, Sorrentino A, Campi C, Piana M. **Forward simulation and inverse dipole localization with the lowest order Raviart - Thomas elements for electroencephalography**. Inverse Problems. 2011 Apr;27(4). 045003. <https://doi.org/10.1088/0266-5611/27/4/045003>

Turunen M, Hakulinen J, Ståhl O, Gambäck B, Hansen P, Rodríguez Gancedo MC et al. **Multimodal and mobile conversational Health and Fitness Companions**. Computer Speech and Language. 2011 Apr;25(2):192-209. <https://doi.org/10.1016/j.csl.2010.04.004>

Wilks Y, Catizone R, Worgan S, Turunen M. **Some background on dialogue management and conversational speech for dialogue systems**. Computer Speech and Language. 2011 Apr;25(2):128-139. <https://doi.org/10.1016/j.csl.2010.03.001>

Leino J, Räihä KJ, Finnberg S. **All the news that's fit to read: Finding and recommending news online**. In Human-Computer Interaction - INTERACT 2011 - 13th IFIP TC 13 International Conference, Proceedings. PART 3 ed. Vol. 6948 LNCS. 2011. p. 169-186. (Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics); PART 3). https://doi.org/10.1007/978-3-642-23765-2_12

Neumann L, Matas J. **A method for text localization and recognition in real-world images**. In Computer Vision, ACCV 2010 - 10th Asian Conference on Computer Vision, Revised Selected Papers. PART 3 ed. Vol. 6494 LNCS. 2011. p. 770-783. (Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics); PART 3). https://doi.org/10.1007/978-3-642-19318-7_60

Wu HH, Shen CC, Sane N, Plishker W, Bhattacharyya SS. **A model-based schedule representation for heterogeneous mapping of dataflow graphs**. In 2011 IEEE International Symposium on Parallel and Distributed Processing, Workshops and Phd Forum, IPDPSW 2011. 2011. p. 70-81. 6008822 <https://doi.org/10.1109/IPDPS.2011.128>

Makni N, Iancu A, Puech P, Mordon S, Betrouni N. **A morphological atlas of prostate's zonal anatomy for construction of realistic digital and physical phantoms**. In Prostate Cancer Imaging: Image Analysis and Image-Guided Interventions - International Workshop, Held in Conjunction with MICCAI 2011, Proceedings. Vol. 6963 LNCS. 2011. p. 22-34. (Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics)). https://doi.org/10.1007/978-3-642-23944-1_3

Brumley B, Page D. **Bit-sliced binary normal basis multiplication**. In Proceedings - 20th IEEE Symposium on Computer Arithmetic, ARITH-20. 2011. p. 205-212. 5992128 <https://doi.org/10.1109/ARITH.2011.36>

Salminen K, Surakka V, Lylykangas J, Rantala J, Laitinen P, Raisamo R. **Evaluations of piezo actuated haptic stimulations**. In Affective Computing and Intelligent Interaction - 4th International Conference, ACII 2011, Proceedings. PART 1 ed. Vol. 6974 LNCS. 2011. p. 296-305. (Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics); PART 1). https://doi.org/10.1007/978-3-642-24600-5_33

Leen G, Peltonen J, Kaski S. **Focused multi-task learning using Gaussian processes**. In Machine Learning and Knowledge Discovery in Databases - European Conference, ECML PKDD 2011, Proceedings. PART 2 ed. Vol. 6912 LNAI. 2011. p. 310-325. (Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics); PART 2). https://doi.org/10.1007/978-3-642-23783-6_20

Plishker W, Sane N, Kiemb M, Bhattacharyya SS. **Heterogeneous design in functional DIF**. In Transactions on High-Performance Embedded Architectures and Compilers IV. Vol. 6760 LNCS. 2011. p. 391-408. (Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics)). <https://doi.org/10.1007/978-3-642-24568-8-20>

Chum O, Matas J. **Planar affine rectification from change of scale**. In Computer Vision, ACCV 2010 - 10th Asian Conference on Computer Vision, Revised Selected Papers. PART 4 ed. Vol. 6495 LNCS. 2011. p. 347-360. (Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics); PART 4). https://doi.org/10.1007/978-3-642-19282-1_28

Lukin V, Ponomarenko N, Kurekin A, Pogrebnyak O. **Processing and classification of multichannel remote sensing data**. In Advances in Soft Computing - 10th Mexican International Conference on Artificial Intelligence, MICAI 2011, Proceedings. PART 2 ed. Vol. 7095 LNAI. 2011. p. 487-498. (Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics); PART 2). https://doi.org/10.1007/978-3-642-25330-0_43

Brumley B, Tuveri N. **Remote timing attacks are still practical**. In Computer Security, ESORICS 2011 - 16th European Symposium on Research in Computer Security, Proceedings. Vol. 6879 LNCS. 2011. p. 355-371. (Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics)). https://doi.org/10.1007/978-3-642-23822-2_20

Ilves M, Surakka V, Vanhala T. **The effects of emotionally worded synthesized speech on the ratings of emotions and voice quality**. In Affective Computing and Intelligent Interaction - 4th International Conference, ACII 2011, Proceedings. PART 1 ed. Vol. 6974 LNCS. 2011. p. 588-598. (Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics); PART 1). https://doi.org/10.1007/978-3-642-24600-5_62

Hyrkkänen U, Nenonen S. **The virtual workplace of a mobile employee - How does Vischer's model function in identifying physical, functional and psychosocial fit?** In Human-Computer Interaction: Towards Mobile and Intelligent Interaction Environments - 14th International Conference, HCI International 2011, Proceedings. PART 3 ed. Vol. 6763 LNCS. 2011. p. 69-75. (Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics); PART 3). https://doi.org/10.1007/978-3-642-21616-9_8

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>

Siirtola H, Rähkä KJ. **Using gaze data in evaluating interactive visualizations**. In Human Aspects of Visualization - Second IFIP WG 13.7 Workshop on Human-Computer Interaction and Visualization, HCIV (INTERACT) 2009, Revised Selected Papers. Vol. 6431 LNCS. 2011. p. 127-141. (Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics)). https://doi.org/10.1007/978-3-642-19641-6_9

Brumley BB, Hakala RM, Nyberg K, Sovio S. **Consecutive S-box lookups: A timing attack on SNOW 3G**. In Information and Communications Security - 12th International Conference, ICICS 2010, Proceedings. 2010. p. 171-185. (Lecture Notes in Computer Science). https://doi.org/10.1007/978-3-642-17650-0_13

Acliğmez O, Brumley BB, Grabher P. **New results on instruction cache attacks**. In Cryptographic Hardware and Embedded Systems, CHES 2010 - 12th International Workshop, Proceedings. 2010. p. 110-124. (Lecture Notes in Computer Science). https://doi.org/10.1007/978-3-642-15031-9_8

Brumley BB, Jarvinen KU. **Conversion algorithms and implementations for koblitz curve cryptography**. IEEE Transactions on Computers. 2010 Jan 4;59(1):81-92. 5255226. <https://doi.org/10.1109/TC.2009.132>

Brumley BB, Hakala RM. **Cache-timing template attacks**. In Advances in Cryptology - ASIACRYPT 2009 - 15th International Conference on the Theory and Application of Cryptology and Information Security, Proceedings. 2009. p. 667-684. (Lecture Notes in Computer Science). https://doi.org/10.1007/978-3-642-10366-7_39

Brumley BB, Nyberg K. **On modular decomposition of integers**. In Progress in Cryptology - AFRICACRYPT 2009 - Second International Conference on Cryptology in Africa, Proceedings. 2009. p. 386-402. (Lecture Notes in Computer Science). https://doi.org/10.1007/978-3-642-02384-2_24

Brumley BB, Järvinen KU. **Fast point decompression for standard elliptic curves**. In Public Key Infrastructure - 5th European PKI Workshop: Theory and Practice, EuroPKI 2008, Proceedings. 2008. p. 134-149. (Lecture Notes in Computer Science). https://doi.org/10.1007/978-3-540-69485-4_10

Brumley BB, Nyberg K. **Differential properties of elliptic curves and blind signatures**. In Information Security - 10th International Conference, ISC 2007, Proceedings. 2007. p. 376-389. (Lecture Notes in Computer Science).

Brumley BB, Järvinen K. **Koblitz curves and integer equivalents of frobenius expansions**. In Selected Areas in Cryptography - 14th International Workshop, SAC 2007, Revised Selected Papers. 2007. p. 126-137. (Lecture Notes in Computer Science).

Emmert-Streib F, Dehmer M. **Optimization procedure for predicting nonlinear time series based on a non-Gaussian noise model**. In Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics). Vol. 4827 LNAI. 2007. p. 540-549. (Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics)). https://doi.org/10.1007/978-3-540-76631-5_51

Brumley BB. **Left-to-right signed-bit τ -adic representations of n integers**. In Information and Communications Security - 8th International Conference, ICICS 2006, Proceedings. Springer Verlag. 2006. p. 469-478. (Lecture Notes in Computer Science).

Emmert-Streib F. **A novel stochastic learning rule for neural networks**. In Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics). Vol. 3971 LNCS. Springer Verlag. 2006. p. 414-423. (Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics)). https://doi.org/10.1007/11759966_62

Emmert-Streib F. **A neurobiologically motivated model for self-organized learning**. In Gelbukh A, DeAlbornoz A, TerashimaMarin H, editors, Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics). Vol. 3789 LNAI. Springer-Verlag, Berlin. 2005. p. 415-424. (Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics)). https://doi.org/10.1007/11579427_42

Rentto K, Korhonen I, Vätänen A, Pekkarinen L, Tuomisto T, Cluitmans L et al. **Users' preferences for ubiquitous computing applications at home**. In Lecture Notes in Computer Science: Ambient Intelligence. First European Symposium, EUSAI 2003. Vol. 2875. Springer Netherlands. 2003. p. 384-393