

- Klock, A. C. T., Gasparini, I., Pimenta, M. S., & Hamari, J. (2020). Tailored gamification: A review of literature. *International Journal of Human Computer Studies*, 144, [102495]. <https://doi.org/10.1016/j.ijhcs.2020.102495>
- Legaki, N. Z., Xi, N., Hamari, J., Karpouzis, K., & Assimakopoulos, V. (2020). The effect of challenge-based gamification on learning: An experiment in the context of statistics education. *International Journal of Human Computer Studies*, 144, [102496]. <https://doi.org/10.1016/j.ijhcs.2020.102496>
- Lenarduzzi, V., Saarimäki, N., & Taibi, D. (2020). Some SonarQube issues have a significant but small effect on faults and changes. A large-scale empirical study. *Journal of Systems and Software*, 170, [110750]. <https://doi.org/10.1016/j.jss.2020.110750>
- Tervo, O., Levanen, T., Pajukoski, K., Hulkkonen, J., Wainio, P., & Valkama, M. (2020). 5G new radio evolution towards sub-THz communications. In *2nd 6G Wireless Summit 2020: Gain Edge for the 6G Era, 6G SUMMIT 2020* IEEE. <https://doi.org/10.1109/6GSUMMIT49458.2020.9083807>
- Nupponen, J., & Taibi, D. (2020). Serverless: What it Is, What to Do and What Not to Do. In *2020 IEEE International Conference on Software Architecture Companion, ICSA-C 2020* (pp. 49-50). IEEE. <https://doi.org/10.1109/ICSA-C50368.2020.00016>
- Zolfaghari, H., Rossi, D., & Nurmi, J. (2020). A custom processor for protocol-independent packet parsing. *Microprocessors and Microsystems*, 72. <https://doi.org/10.1016/j.micpro.2019.102910>
- Lenarduzzi, V., Lomio, F., Huttunen, H., & Taibi, D. (2020). Are SonarQube Rules Inducing Bugs? In K. Kontogiannis, F. Khomh, A. Chatzigeorgiou, M-E. Fokaefs, & M. Zhou (Eds.), *SANER 2020 - Proceedings of the 2020 IEEE 27th International Conference on Software Analysis, Evolution, and Reengineering* (pp. 501-511). IEEE. <https://doi.org/10.1109/SANER48275.2020.9054821>
- Yan, S., Wirta, J., & Kämäräinen, J-K. (2020). Anthropometric clothing measurements from 3D body scans. *Machine Vision and Applications*, 31(1-2), [7]. <https://doi.org/10.1007/s00138-019-01054-4>
- Li, M., Alhoussein, O., Sofotasios, P. C., Muhaidat, S., Yoo, P. D., Liang, J., & Wang, A. (2020). Censor-Based Cooperative Multi-Antenna Spectrum Sensing with Imperfect Reporting Channels. *IEEE Transactions on Sustainable Computing*, 5(1), 48-60. <https://doi.org/10.1109/TSUSC.2019.2896667>
- Lenarduzzi, V., Nikkola, V., Saarimäki, N., & Taibi, D. (2020). Does code quality affect pull request acceptance? An empirical study. *Journal of Systems and Software*, 171, [110806]. <https://doi.org/10.1016/j.jss.2020.110806>
- Lenarduzzi, V., Lomio, F., Saarimäki, N., & Taibi, D. (2020). Does migrating a monolithic system to microservices decrease the technical debt? *Journal of Systems and Software*, 169, [110710]. <https://doi.org/10.1016/j.jss.2020.110710>
- Kishore, R., Gurugopinath, S., Muhaidat, S., Sofotasios, P. C., Dianati, M., & Al-Dhahir, N. (2020). Energy Efficiency Analysis of Collaborative Compressive Sensing Scheme in Cognitive Radio Networks. *IEEE Transactions on Cognitive Communications and Networking*, 6(3), 1056-1068. <https://doi.org/10.1109/TCCN.2020.3007901>
- 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>
- Heljakka, K., Ihamaki, P., Tuomi, P., & Saarikoski, P. (2019). Gamified coding: Toy robots and playful learning in early education. In *Proceedings - 6th Annual Conference on Computational Science and Computational Intelligence, CSCI 2019* (pp. 800-805). [9071010] IEEE. <https://doi.org/10.1109/CSCI49370.2019.00152>
- Rostami, S., Lagen, S., Costa, M., Dlni, P., & Valkama, M. (2019). Optimized wake-up scheme with bounded delay for energy-efficient MTC. In *2019 IEEE Global Communications Conference, GLOBECOM 2019 - Proceedings* [9013534] IEEE. <https://doi.org/10.1109/GLOBECOM38437.2019.9013534>

- Gerasimenko, M., Pokorny, J., Schneider, T., Sirjov, J., Andreev, S., & Hosek, J. (2019). Prototyping directional UAV-based wireless access and backhaul systems. In *2019 IEEE Global Communications Conference, GLOBECOM 2019 - Proceedings* [9014228] IEEE. <https://doi.org/10.1109/GLOBECOM38437.2019.9014228>
- Sievi-Korte, O., Richardson, I., & Beecham, S. (2019). Software architecture design in global software development: An empirical study. *Journal of Systems and Software, 158*, [110400]. <https://doi.org/10.1016/j.jss.2019.110400>
- Amaral, V., Norberto, B., Goulão, M., Aldinucci, M., Benkner, S., Bracciali, A., ... Visa, A. (2019). Programming languages for data-intensive HPC applications: A systematic mapping study. *Parallel Computing, 91*, [102584]. <https://doi.org/10.1016/j.parco.2019.102584>
- Mäkitalo, N., Aaltonen, T., Raatikainen, M., Ometov, A., Andreev, S., Koucheryavy, Y., & Mikkonen, T. (2019). Action-Oriented Programming Model: Collective Executions and Interactions in the Fog. *Journal of Systems and Software, 157*, [110391]. <https://doi.org/10.1016/j.jss.2019.110391>
- Vajaranta, M., Oinonen, A., Hämäläinen, T. D., Viitamäki, V., Markunmäki, J., & Kulmala, A. (2019). Feasibility of FPGA accelerated IPsec on cloud. *Microprocessors and Microsystems, 71*, [102861]. <https://doi.org/10.1016/j.micpro.2019.102861>
- Jylhä, H., & Hamari, J. (2019). An icon that everyone wants to click: How perceived aesthetic qualities predict app icon successfulness. *International Journal of Human Computer Studies, 130*, 73-85. <https://doi.org/10.1016/j.ijhcs.2019.04.004>
- Simmons, N., Nogueira Da Silva, C. R., Cotton, S. L., Sofotasios, P. C., Ki Yoo, S., & Yacoub, M. D. (2019). The Double Shadowed κ - μ Fading Model. In *2019 International Conference on Wireless and Mobile Computing, Networking and Communications, WiMob 2019* (International Conference on Wireless and Mobile Computing, Networking and Communications). IEEE. <https://doi.org/10.1109/WiMOB.2019.8923336>
- Ferranti, L., & Boutellier, J. (2019). Towards Algebraic Modeling of GPU Memory Access for Bank Conflict Mitigation. In *2019 IEEE International Workshop on Signal Processing Systems, SiPS 2019* (pp. 103-108). IEEE. <https://doi.org/10.1109/SiPS47522.2019.9020385>
- Rajput, S., Averbukh, M., Yahalom, A., & Minav, T. (2019). An approval of MPPT based on pv cell's simplified equivalent circuit during fast-shading conditions. *Electronics (Switzerland), 8*(9), [1060]. <https://doi.org/10.3390/electronics8091060>
- Hella, L., Kuusisto, A., Meier, A., & Virtema, J. (2019). Model checking and validity in propositional and modal inclusion logics. *JOURNAL OF LOGIC AND COMPUTATION, 29*(5), 605-630. <https://doi.org/10.1093/logcom/exz008>
- Bhalerao, S. R., Lupo, D., & Berger, P. R. (2019). 2-volt Solution-Processed, Indium Oxide (In_2O_3) Thin Film Transistors on flexible Kapton. In *2019 IEEE International Flexible Electronics Technology Conference, IFETC 2019* IEEE. <https://doi.org/10.1109/IFETC46817.2019.9073721>
- Zare, A., Homayouni, M., Aminlou, A., Hannuksela, M. M., & Gabbouj, M. (2019). 6K and 8K effective resolution with 4K HEVC decoding capability for 360 video streaming. *ACM Transactions on Multimedia Computing, Communications and Applications, 15*(2s), [68]. <https://doi.org/10.1145/3335053>
- Arcelli Fontana, F., Lenarduzzi, V., Roveda, R., & Taibi, D. (2019). Are architectural smells independent from code smells? An empirical study. *Journal of Systems and Software, 154*, 139-156. <https://doi.org/10.1016/j.jss.2019.04.066>
- Hirvonen, A., Tervo, K., Kultala, H., & Jääskeläinen, P. (2019). AEx: Automated Customization of Exposed Datapath Soft-Cores. In N. Konofaos, & P. Kitsos (Eds.), *Proceedings - Euromicro Conference on Digital System Design, DSD 2019* (pp. 35-42). (Proceedings - Euromicro Conference on Digital System Design, DSD 2019). IEEE. <https://doi.org/10.1109/DSD.2019.00016>

- Zhidanov, K., Bezzateev, S., Afanasyeva, A., Sayfullin, M., Vanurin, S., Bardinova, Y., & Ometov, A. (2019). Blockchain Technology for Smartphones and Constrained IoT Devices: A Future Perspective and Implementation. In J. Becker, O. Pastor, E. Kornysheva, V. O. Korepanov, O. A. Tsukanova, J. B. Albornoz, D. Fedyanin, V. N. Burkov, D. M. Nazarov, D. Novikov, R. Uskenbaeva, ... A. V. Shchepkin (Eds.), *21st IEEE Conference on Business Informatics, CBI 2019* (pp. 20-27). [8808043] IEEE. <https://doi.org/10.1109/CBI.2019.10092>
- Rusu, C., & Astola, J. (2019). Input magnitude data setting in error-reduction algorithm for one-dimensional discrete phase retrieval problem. In *ISSCS 2019 - International Symposium on Signals, Circuits and Systems* [8801743] IEEE. <https://doi.org/10.1109/ISSCS.2019.8801743>
- Mäkelä, V., Linna, J., Keskinen, T., Hakulinen, J., & Turunen, M. (2019). Acceptance and perceptions of interactive location-tracking displays. In V. Gentile, & J. R. Cauchard (Eds.), *Pervasive Displays 2019 - 8th ACM International Symposium on Pervasive Displays, PerDis 2019* [a17] ACM. <https://doi.org/10.1145/3321335.3324931>
- Moltchanov, D., Kovalchukov, R., Gerasimenko, M., Andreev, S., Koucheryavy, Y., & Gerla, M. (2019). Socially inspired relaying and proactive mode selection in mmWave vehicular communications. *IEEE Internet of Things Journal*, 6(3), 5172-5183. <https://doi.org/10.1109/JIOT.2019.2898420>
- Kishore, R., Gurugopinath, S., Sofotasios, P. C., Muhaidat, S., & Al-Dhahir, N. (2019). Opportunistic ambient backscatter communication in RF-Powered cognitive radio networks. *IEEE Transactions on Cognitive Communications and Networking*, 5(2), 413-426. [8672817]. <https://doi.org/10.1109/TCCN.2019.2907090>
- Vadivel, K., Jordans, R., Stuijk, S., Corporaal, H., Jääskeläinen, P., & Kultala, H. (2019). Towards Efficient Code Generation for Exposed Datapath Architectures. In S. Stuijk (Ed.), *Proceedings of the 22nd International Workshop on Software and Compilers for Embedded Systems, SCOPES 2019* (pp. 86-89). ACM. <https://doi.org/10.1145/3323439.3323990>
- Heinisuo, O-P., Lenarduzzi, V., & Taibi, D. (2019). Asterism: Decentralized file sharing application for mobile devices. In *2019 7th IEEE International Conference on Mobile Cloud Computing, Services, and Engineering, MobileCloud 2019* (pp. 38-47). IEEE. <https://doi.org/10.1109/MobileCloud.2019.00013>
- Jaakkola, H., Henno, J., Mäkelä, J., & Thalheim, B. (2019). Artificial intelligence yesterday, today and tomorrow. In K. Skala, Z. Car, P. Pale, D. Huljenic, M. Janjic, M. Koracic, V. Struk, S. Ribaric, T. G. Grbac, Z. Butkovic, M. Cicin-Sain, D. Skvorc, M. Mauher, S. Babic, S. Gros, B. Vrdoljak, ... E. Tijan (Eds.), *2019 42nd International Convention on Information and Communication Technology, Electronics and Microelectronics, MIPRO 2019 - Proceedings* (pp. 860-867). IEEE. <https://doi.org/10.23919/MIPRO.2019.8756913>
- Li, S., Bariah, L., Muhaidat, S., Sofotasios, P., Liang, J., & Wang, A. (2019). Error analysis of NOMA-based user cooperation with SWIPT. In *Proceedings - 15th Annual International Conference on Distributed Computing in Sensor Systems, DCOSS 2019* (pp. 507-513). IEEE. <https://doi.org/10.1109/DCOSS.2019.00098>
- Linna, P., Narra, N., & Grönman, J. (2019). Intelligent data service for farmers. In K. Skala, Z. Car, P. Pale, D. Huljenic, M. Janjic, M. Koracic, V. Struk, S. Ribaric, T. G. Grbac, Z. Butkovic, M. Cicin-Sain, D. Skvorc, M. Mauher, S. Babic, S. Gros, B. Vrdoljak, ... E. Tijan (Eds.), *2019 42nd International Convention on Information and Communication Technology, Electronics and Microelectronics, MIPRO 2019 - Proceedings* (pp. 1072-1075). IEEE. <https://doi.org/10.23919/MIPRO.2019.8756688>
- Zolfaghari, H., Rossi, D., & Nurmi, J. (2019). Reducing crossbar costs in the match-action pipeline. In *2019 IEEE 20th International Conference on High Performance Switching and Routing, HPSR 2019* (IEEE International Conference on High Performance Switching and Routing, HPSR). IEEE. <https://doi.org/10.1109/HPSR.2019.8808105>
- Henno, J., Jaakkola, H., & Mäkelä, J. (2019). Teaching for virtual work. In K. Skala, Z. Car, P. Pale, D. Huljenic, M. Janjic, M. Koracic, V. Struk, S. Ribaric, T. G. Grbac, Z. Butkovic, M. Cicin-Sain, D. Skvorc, M. Mauher, S. Babic, S. Gros, B. Vrdoljak, ... E. Tijan (Eds.), *2019 42nd International Convention on Information and Communication Technology, Electronics and Microelectronics, MIPRO 2019 - Proceedings* (pp. 818-826). IEEE. <https://doi.org/10.23919/MIPRO.2019.8756778>

Silverajan, B., Zhao, H., & Kamath, A. (2019). A Semantic Meta-Model Repository for Lightweight M2M. In *2018 IEEE International Conference on Communication Systems, ICCS 2018* (pp. 468-472). IEEE. <https://doi.org/10.1109/ICCS.2018.8689185>

Petrov, V., Moltchanov, D., Jornet, J. M., & Koucheryavy, Y. (2019). Exploiting Multipath Terahertz Communications for Physical Layer Security in beyond 5G Networks. In *INFOCOM 2019 - IEEE Conference on Computer Communications Workshops, INFOCOM WKSHPs 2019* (pp. 865-872). IEEE. <https://doi.org/10.1109/INFCOMW.2019.8845312>

Kishore, R., Gurugopinath, S., Muhaidat, S., Sofotasios, P. C., Dobre, O. A., & Al-Dhahir, N. (2019). Sensing-throughput tradeoff for superior selective reporting-based spectrum sensing in energy harvesting HCRNs. *IEEE Transactions on Cognitive Communications and Networking*, 5(2), 330-341. [8672813]. <https://doi.org/10.1109/TCCN.2019.2906915>

Berger, P. R., Li, M., Mattei, R. M., Niang, M. A., Talisa, N., Tripepi, M., ... Lupo, D. (2019). Advancements in Solution Processable Devices using Metal Oxides For Printed Internet-of-Things Objects. In *2019 Electron Devices Technology and Manufacturing Conference, EDTM 2019* (pp. 160-162). IEEE. <https://doi.org/10.1109/EDTM.2019.8731322>

Li, L., Deaville, P., Sapio, A., Anttila, L., Valkama, M., Wolf, M., & Bhattacharyya, S. S. (2019). A Framework for Design and Implementation of Adaptive Digital Predistortion Systems. In *Proceedings 2019 IEEE International Conference on Artificial Intelligence Circuits and Systems, AICAS 2019* (pp. 112-116). IEEE. <https://doi.org/10.1109/AICAS.2019.8771476>

Ometov, A., Petrov, V., Bezzateev, S., Andreev, S., Koucheryavy, Y., & Gerla, M. (2019). Challenges of Multi-Factor Authentication for Securing Advanced IoT Applications. *IEEE Network*, 33(2), 82-88. <https://doi.org/10.1109/MNET.2019.1800240>

Zhou, Y., Bai, Y., Bhattacharyya, S. S., & Huttunen, H. (2019). Elastic Neural Networks for Classification. In *Proceedings 2019 IEEE International Conference on Artificial Intelligence Circuits and Systems, AICAS 2019* (pp. 251-255). IEEE. <https://doi.org/10.1109/AICAS.2019.8771475>

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

Kultala, H., Viitanen, T., Berg, H., Jääskeläinen, P., Multanen, J., Kokkonen, M., ... Takala, J. (2019). LordCore: Energy-Efficient OpenCL-Programmable Software-Defined Radio Coprocessor. *IEEE Transactions on Very Large Scale Integration (VLSI) Systems*, 27(5), 1029-1042. <https://doi.org/10.1109/TVLSI.2019.2897508>

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>

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>

Sharifzadeh, S., Tata, J., & Tan, B. (2019). Farm detection based on deep convolutional neural nets and semi-supervised green texture detection using VIS-NIR satellite image. In S. Hammoudi, C. Quix, & J. Bernardino (Eds.), *DATA 2019 - Proceedings of the 8th International Conference on Data Science, Technology and Applications* (pp. 100-108). SCITEPRESS. <https://doi.org/10.5220/0007954901000108>

Badarneh, O. S., Sofotasios, P. C., Muhaidat, S., Cotton, S. L., Rabie, K., & Al-Dhahir, N. (2018). On the Secrecy Capacity of Fisher-Snedecor F Fading Channels. In *2018 14th International Conference on Wireless and Mobile Computing, Networking and Communications, WiMob 2018* (pp. 102-107). IEEE. <https://doi.org/10.1109/WiMOB.2018.8589137>

Badarneh, O. S., Muhaidat, S., Sofotasios, P. C., Cotton, S. L., Rabie, K., & Da Costa, D. B. (2018). The N*Fisher-Snedecor F Cascaded Fading Model. In *2018 14th International Conference on Wireless and Mobile Computing, Networking and Communications, WiMob 2018* IEEE. <https://doi.org/10.1109/WiMOB.2018.8589124>

Sapio, A., Bhattacharyya, S. S., & Wolf, M. (2018). Efficient Solving of Markov Decision Processes on GPUs Using Parallelized Sparse Matrices. In *2018 Conference on Design and Architectures for Signal and Image Processing, DASIP 2018* (pp. 13-18). (Conference on Design and Architectures for Signal and Image Processing, DASIP). IEEE COMPUTER SOCIETY PRESS. <https://doi.org/10.1109/DASIP.2018.8596969>

Nouri, S., Rossi, D., & Nurmi, J. (2018). Power mitigation of a heterogeneous multicore architecture on FPGA/ASIC by DFS/DVFS techniques. *Microprocessors and Microsystems*, *63*, 259-268. <https://doi.org/10.1016/j.micpro.2018.09.010>

Valinataj, M., Mohammadnejad, A., & Nurmi, J. (2018). A Low-Cost High-Speed Self-Checking Carry Select Adder with Multiple-Fault Detection. *Microelectronics journal*, *81*, 16-27. <https://doi.org/10.1016/j.mejo.2018.08.014>

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>

Teuho, M., Pekkarinen, E., & Hämäläinen, T. D. (2018). Visualization of memory map information in embedded system design. In *Proceedings - 21st Euromicro Conference on Digital System Design, DSD 2018* (pp. 163-166). [8491811] IEEE. <https://doi.org/10.1109/DSD.2018.00040>

Salminen, K., Rantala, J., Isokoski, P., Lehtonen, M., Müller, P., Karjalainen, M., ... Surakka, V. (2018). Olfactory display prototype for presenting and sensing authentic and synthetic odors. In *ICMI 2018 - Proceedings of the 2018 International Conference on Multimodal Interaction* (pp. 73-77). ACM. <https://doi.org/10.1145/3242969.3242999>

Adler, J., Kulju, S., Hyväluoma, J., Mattila, K., Choi, K., Tziakos, I., ... Silverman, A. (2018). Visualization in the integrated SimPhoNy multiscale simulation framework. *Computer Physics Communications*, *231*, 45-61. <https://doi.org/10.1016/j.cpc.2018.05.005>

Multanen, J., Kultala, H., & Jääskeläinen, P. (2018). Energy-Delay Trade-offs in Instruction Register File Design. In *2018 IEEE Nordic Circuits and Systems Conference (NORCAS): NORCHIP and International Symposium of System-on-Chip (SoC)* IEEE. <https://doi.org/10.1109/NORCHIP.2018.8573504>

Ma, H., Yu, S., Gabbouj, M., & Mueller, P. (2018). Guest Editorial Special Issue on Multimedia Big Data in Internet of Things. *IEEE Internet of Things Journal*, *5*(5), 3405-3407. [8534720]. <https://doi.org/10.1109/JIOT.2018.2875580>

Multanen, J., Kultala, H., Jääskeläinen, P., Viitanen, T., Tervo, A., & Takala, J. (2018). LoTTA: Energy-Efficient Processor for Always-on Applications. In *2018 IEEE International Workshop on Signal Processing Systems (SiPS)* IEEE. <https://doi.org/10.1109/SiPS.2018.8598408>

Iftikhar, U., Mohammed, W. M., Ferrer, B. R., & Lastra, J. L. M. (2018). A Framework for Data Collection, Transformation and Processing in Industrial Systems. In *Proceedings - IEEE 16th International Conference on Industrial Informatics, INDIN 2018* (pp. 707-712). [8471996] (IEEE International Conference on Industrial Informatics). Institute of Electrical and Electronics Engineers Inc.. <https://doi.org/10.1109/INDIN.2018.8471996>

Seyedamir, A., Ferrer, B. R., & Lastra, J. L. M. (2018). An ISA-95 based Ontology for Manufacturing Systems Knowledge Description Extended with Semantic Rules. In *Proceedings - IEEE 16th International Conference on Industrial Informatics, INDIN 2018* (pp. 374-380). [8471929] (IEEE International Conference on Industrial Informatics). Institute of Electrical and Electronics Engineers Inc.. <https://doi.org/10.1109/INDIN.2018.8471929>

- Mohammed, W. M., Ferrer, B. R., Iftikhar, U., Lastra, J. L. M., & Simarro, J. H. (2018). Supporting a Cloud Platform with Streams of Factory Shop Floor Data in the Context of the Industry 4.0. In *Proceedings - IEEE 16th International Conference on Industrial Informatics, INDIN 2018* (pp. 786-791). [8471981] (IEEE International Conference on Industrial Informatics). Institute of Electrical and Electronics Engineers Inc.. <https://doi.org/10.1109/INDIN.2018.8471981>
- Ferrer, B. R., Mohammed, W. M., Martinez Lastra, J. L., Villalonga, A., Beruvides, G., Castano, F., & Haber, R. E. (2018). Towards the Adoption of Cyber-Physical Systems of Systems Paradigm in Smart Manufacturing Environments. In *Proceedings - IEEE 16th International Conference on Industrial Informatics, INDIN 2018* (pp. 792-799). [8472061] (IEEE International Conference on Industrial Informatics). Institute of Electrical and Electronics Engineers Inc.. <https://doi.org/10.1109/INDIN.2018.8472061>
- Coatanea, E., & Roca, R. (2018). Dimensional analysis conceptual modeling supporting adaptable reasoning in simulation-based training. In *2018 13th System of Systems Engineering Conference, SoSE 2018* (pp. 245-252). IEEE. <https://doi.org/10.1109/SYSOSE.2018.8428785>
- Viitanen, M., Vanne, J., Hämäläinen, T. D., & Kulmala, A. (2018). Low latency edge rendering scheme for interactive 360 degree virtual reality gaming. In *Proceedings - 2018 IEEE 38th International Conference on Distributed Computing Systems, ICDCS 2018* (pp. 1557-1560). IEEE. <https://doi.org/10.1109/ICDCS.2018.00168>
- Gapeyenko, M., Bor-Yaliniz, I., Andreev, S., Yanikomeroğlu, H., & Koucheryavy, Y. (2018). Effects of blockage in deploying mmWave drone base stations for 5g networks and beyond. In *2018 IEEE International Conference on Communications Workshops* (pp. 1-6). IEEE. <https://doi.org/10.1109/ICCW.2018.8403671>
- Korpi, D., Turunen, M., Anttila, L., & Valkama, M. (2018). Modeling and cancellation of self-interference in full-duplex radio transceivers: Volterra series-based approach. In *2018 IEEE International Conference on Communications Workshops* (pp. 1-6). IEEE. <https://doi.org/10.1109/ICCW.2018.8403638>
- Li, X., You, C., Andreev, S., Gong, Y., & Huang, K. (2018). Optimizing wirelessly powered crowd sensing: Trading energy for data. In *2018 IEEE International Conference on Communications Workshops* (pp. 1-6). IEEE. <https://doi.org/10.1109/ICCW.2018.8403562>
- Silverajan, B., Ocaik, M., & Nagel, B. (2018). Cybersecurity Attacks and Defences for Unmanned Smart Ships. In *Proceedings - IEEE 2018 International Congress on Cybermatics: 2018 IEEE Conferences on Internet of Things, Green Computing and Communications, Cyber, Physical and Social Computing, Smart Data, Blockchain, Computer and Information Technology, iThings/GreenCom/CPSCoM/SmartData/Blockchain/CIT 2018* (pp. 15-20). IEEE. https://doi.org/10.1109/Cybermatics_2018.2018.00037
- Kolehmainen, A. (2018). Secure Firmware Updates for IoT: A Survey. In *Proceedings - IEEE 2018 International Congress on Cybermatics: 2018 IEEE Conferences on Internet of Things, Green Computing and Communications, Cyber, Physical and Social Computing, Smart Data, Blockchain, Computer and Information Technology, iThings/GreenCom/CPSCoM/SmartData/Blockchain/CIT 2018* (pp. 112-117). IEEE. https://doi.org/10.1109/Cybermatics_2018.2018.00051
- Henno, J., Jaakkola, H., & Makela, J. (2018). Adjusting university education with workspace training and self-education. In *2018 41st International Convention on Information and Communication Technology, Electronics and Microelectronics, MIPRO 2018* (pp. 701-708). IEEE. <https://doi.org/10.23919/MIPRO.2018.8400131>
- Jaakkola, H., Thalheim, B., Henno, J., Mäkelä, J., & Keto, H. (2018). Role of the user in information systems development . In *2018 41st International Convention on Information and Communication Technology, Electronics and Microelectronics, MIPRO 2018* (pp. 625-632). IEEE. <https://doi.org/10.23919/MIPRO.2018.8400118>
- Muhammad, U., Ferrer, B. R., Mohammed, W. M., & Lastra, J. L. M. (2018). An approach for implementing key performance indicators of a discrete manufacturing simulator based on the ISO 22400 standard. In *2018 IEEE Industrial Cyber-Physical Systems, ICPS 2018* (pp. 629-636). IEEE. <https://doi.org/10.1109/ICPHYS.2018.8390779>

- Hussnain, A., Ferrer, B. R., & Lastra, J. L. M. (2018). Towards the deployment of cloud robotics at factory shop floors: A prototype for smart material handling. In *2018 IEEE Industrial Cyber-Physical Systems, ICPS 2018* (pp. 44-50). IEEE. <https://doi.org/10.1109/ICPHYS.2018.8387635>
- Tran, H. N., Bhattacharyya, S. S., Talpin, J. P., & Gautier, T. (2018). Toward efficient many-core scheduling of partial expansion graphs. In *Proceedings of the 21st International Workshop on Software and Compilers for Embedded Systems, SCOPES 2018* (pp. 100-103). Association for Computing Machinery, Inc. <https://doi.org/10.1145/3207719.3207734>
- Almaeeni, S., Sofotasios, P. C., Muhaidat, S., & Karagiannidis, G. K. (2018). Analysis of differentially modulated cooperative communications over asymmetric fading channels. In *Proceedings - 2018 International Conference on Advanced Communication Technologies and Networking, CommNet 2018* (pp. 1-8). IEEE. <https://doi.org/10.1109/COMMNET.2018.8360284>
- Sofotasios, P. C., Yoo, S. K., Bhargav, N., Muhaidat, S., Cotton, S. L., Matthaiou, M., ... Karagiannidis, G. K. (2018). Capacity analysis under generalized composite fading conditions. In *Proceedings - 2018 International Conference on Advanced Communication Technologies and Networking, CommNet 2018* (pp. 1-10). IEEE. <https://doi.org/10.1109/COMMNET.2018.8360282>
- Mohamed, S., Hamila, R., Al-Dhahir, N., Gouisseem, A., Benbrahim, L., & Gabbouj, M. (2018). Maximum achievable throughput and interference mitigation for SUN in coexistence with WLAN. In *Proceedings - 2018 International Conference on Advanced Communication Technologies and Networking, CommNet 2018* (pp. 1-6). IEEE. <https://doi.org/10.1109/COMMNET.2018.8360252>
- Selim, B., Muhaidat, S., Sofotasios, P. C., Sharif, B. S., Stouraitis, T., Karagiannidis, G. K., & Al-Dhahir, N. (2018). Outage probability of multi-carrier NOMA systems under joint I/Q imbalance. In *Proceedings - 2018 International Conference on Advanced Communication Technologies and Networking, CommNet 2018* (pp. 1-7). IEEE. <https://doi.org/10.1109/COMMNET.2018.8360283>
- Suzumori, K., Hyon, S. H., Semini, C., Mattila, J., & Kanda, T. (2018). Preface: Special Issue on 'New Hydraulic Components for Tough Robots'. *Advanced Robotics*, 32(9). <https://doi.org/10.1080/01691864.2018.1466427>
- Wu, J., Blattner, T., Keyrouz, W., & Bhattacharyya, S. S. (2018). A design tool for high performance image processing on multicore platforms. In *Proceedings of the 2018 Design, Automation and Test in Europe Conference and Exhibition, DATE 2018* (pp. 1304-1309). IEEE. <https://doi.org/10.23919/DATE.2018.8342215>
- Lin, S., Wu, J., & Bhattacharyya, S. S. (2018). Memory-Constrained vectorization and scheduling of dataflow graphs for hybrid CPU-GPU platforms. *ACM Transactions on Embedded Computing Systems*, 17(2), [50]. <https://doi.org/10.1145/3157669>
- Galinina, O., Pyattaev, A., Johnsson, K., Andreev, S., & Koucheryavy, Y. (2018). Analyzing Effects of Directional Deafness on mmWave Channel Access in Unlicensed Bands. In *2017 IEEE Globecom Workshops, GC Wkshps 2017 - Proceedings* (pp. 1-7). IEEE. <https://doi.org/10.1109/GLOCOMW.2017.8269183>
- Solomitchii, D., Petrov, V., Nikopour, H., Akdeniz, M., Orhan, O., Himayat, N., ... Koucheryavy, Y. (2018). Detailed Interference Analysis in Dense mmWave Systems Employing Dual-Polarized Antennas. In *2017 IEEE Globecom Workshops* (pp. 1-6). IEEE. <https://doi.org/10.1109/GLOCOMW.2017.8269040>
- Kovalchukov, R., Samuylov, A., Moltchanov, D., Ometov, A., Andreev, S., Koucheryavy, Y., & Samouylov, K. (2018). Modeling Three-Dimensional Interference and SIR in Highly Directional mmWave Communications. In *2017 IEEE Global Communications Conference, GLOBECOM 2017* (pp. 1-7). IEEE. <https://doi.org/10.1109/GLOCOM.2017.8254905>
- Masek, P., Hudec, D., Krejci, J., Ometov, A., Hosek, J., Andreev, S., ... Koucheryavy, Y. (2018). Advanced wireless m-bus platform for intensive field testing in industry 4.0-based systems. In *24th European Wireless Conference* (pp. 150-155). VDE Verlag.

Kultala, H., Jääskeläinen, P., IJzerman, J., Lehtonen, L., Viitanen, T., Mäkitalo, M., & Takala, J. (2018). Exposed Datapath optimizations for Loop Scheduling. In *Embedded Computer Systems: Architectures, Modeling, and Simulation 2017 IEEE International Conference (IC-SAMOS 2017)* (pp. 171-178). IEEE. <https://doi.org/10.1109/SAMOS.2017.8344625>

Farris, I., Orsino, A., Militano, L., Iera, A., & Araniti, G. (2018). Federated IoT services leveraging 5G technologies at the edge. *Ad Hoc Networks*, 68, 58-69. <https://doi.org/10.1016/j.adhoc.2017.09.002>

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>

Zhang, H., Kiranyaz, S., & Gabbouj, M. (2017). Outlier edge detection using random graph generation models and applications. *Journal of Big Data*, 4(1), [11]. <https://doi.org/10.1186/s40537-017-0073-8>

Wu, J., Blattner, T., Keyrouz, W., & Bhattacharyya, S. S. (2017). Model-based dynamic scheduling for multicore implementation of image processing systems. In *2017 IEEE International Workshop on Signal Processing Systems, SiPS 2017* [8110003] IEEE. <https://doi.org/10.1109/SiPS.2017.8110003>

Nouri, S., Hussain, W., & Nurmi, J. (2017). Evaluation of a Heterogeneous Multicore Architecture by Design and Test of an OFDM Receiver. *IEEE Transactions on Parallel and Distributed Systems*, 3171. <https://doi.org/10.1109/TPDS.2017.2706691>

Morschheuser, B., Hamari, J., Koivisto, J., & Maedche, A. (2017). Gamified crowdsourcing: Conceptualization, literature review, and future agenda. *International Journal of Human-Computer Studies*, 106, 26-43. <https://doi.org/10.1016/j.ijhcs.2017.04.005>

Fanni, T., Li, L., Viitanen, T., Sau, C., Xie, R., Palumbo, F., ... Bhattacharyya, S. S. (2017). Hardware design methodology using lightweight dataflow and its integration with low power techniques. *Journal of Systems Architecture*, 78, 15-29. <https://doi.org/10.1016/j.sysarc.2017.06.003>

Li, L., Sapio, A. E., Wu, J., Liu, Y., Lee, K., Wolf, M., & Bhattacharyya, S. S. (2017). Design and implementation of adaptive signal processing systems using Markov decision processes. In *2017 IEEE 28th International Conference on Application-Specific Systems, Architectures and Processors, ASAP 2017* (pp. 170-175). IEEE. <https://doi.org/10.1109/ASAP.2017.7995275>

Sheikh, M. U., & Lempiäinen, J. (2017). Analysis of multipath propagation for 5G system at higher frequencies in microcellular environment. In *2017 13th International Wireless Communications and Mobile Computing Conference, IWCMC 2017* (pp. 1660-1664). IEEE. <https://doi.org/10.1109/IWCMC.2017.7986533>

Sheikh, M. U., Hiltunen, K., & Lempiäinen, J. (2017). Angular wall loss model and Extended Building Penetration model for outdoor to indoor propagation. In *2017 13th International Wireless Communications and Mobile Computing Conference, IWCMC 2017* (pp. 1291-1296). IEEE. <https://doi.org/10.1109/IWCMC.2017.7986471>

Korpi, D., Riihonen, T., & Valkama, M. (2017). Feasibility of self-backhauling in full-duplex radio access systems under QoS constraints. In *2017 IEEE International Conference on Communications Workshops, ICC Workshops 2017* (pp. 749-754). IEEE. <https://doi.org/10.1109/ICCW.2017.7962748>

Riihonen, T., Korpi, D., Rantula, O., & Valkama, M. (2017). On the prospects of full-duplex military radios. In *2017 International Conference on Military Communications and Information Systems, ICMCIS 2017* IEEE. <https://doi.org/10.1109/ICMCIS.2017.7956490>

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>

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>

Taivalsaari, A., Mikkonen, T., Pautasso, C., & Systä, K. (2017). Comparing the Built-In Application Architecture Models in the Web Browser. In *2017 IEEE International Conference on Software Architecture (ICSA)* (pp. 51-54). [7930198] IEEE. <https://doi.org/10.1109/ICSA.2017.23>

Li, L., Fanni, T., Viitanen, T., Xie, R., Palumbo, F., Raffo, L., ... Bhattacharyya, S. S. (2017). Low power design methodology for signal processing systems using lightweight dataflow techniques. In *DASIP 2016 - Proceedings of the 2016 Conference on Design and Architectures for Signal and Image Processing* (pp. 82-89). IEEE COMPUTER SOCIETY PRESS. <https://doi.org/10.1109/DASIP.2016.7853801>

Masek, P., Mokrov, E., Pyattaev, A., Zeman, K., Ponomarenko-Timofeev, A., Samuylov, A., ... Samouylov, K. (2017). Experimental evaluation of dynamic licensed shared access operation in live 3GPP LTE system. In *2016 IEEE Global Communications Conference (GLOBECOM)* IEEE. <https://doi.org/10.1109/GLOCOM.2016.7841826>

Valmari, A. (2017). Stop it, and be stubborn! *ACM Transactions on Embedded Computing Systems*, 16(2), [46]. <https://doi.org/10.1145/3012279>

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>

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>

Orsino, A., Farris, I., Militano, L., Araniti, G., Andreev, S., Gudkova, I. A., ... Iera, A. (2017). Exploiting D2D communications at the network edge for mission-critical IoT applications. In *European Wireless 2017 - 23rd European Wireless Conference VDE*.

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>

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>

Babahajiani, P., Fan, L., Kämäräinen, J-K., & Gabbouj, M. (2017). Urban 3D segmentation and modelling from street view images and LiDAR point clouds. *Machine Vision and Applications*, 28(7), 679–694. <https://doi.org/10.1007/s00138-017-0845-3>

Zeman, K., Masek, P., Krejci, J., Ometov, A., Hosek, J., Andreev, S., & Kröpfel, F. (2017). Wireless M-bus in industrial IoT: Technology overview and prototype implementation. In *European Wireless 2017 - 23rd European Wireless Conference VDE*.

Multanen, J., Viitanen, T., Jääskeläinen, P., & Takala, J. (2016). Xor-Masking: A Novel Statistical Method for Instruction Read Energy Reduction in Contemporary SRAM Technologies. In *2016 IEEE International Workshop on Signal Processing Systems (SiPS)* IEEE. <https://doi.org/10.1109/SiPS.2016.19>

- Pelcat, M., Desnos, K., Maggiani, L., Liu, Y., Heulot, J., Nezan, J. F., & Bhattacharyya, S. S. (2016). Models of architecture: Reproducible efficiency evaluation for signal processing systems. In *IEEE International Workshop on Signal Processing Systems, SiPS 2016* (pp. 121-126). [7780083] (IEEE International Workshop on Signal Processing Systems). IEEE. <https://doi.org/10.1109/SiPS.2016.29>
- Ben Salem, H., Damarla, T., Sudusinghe, K., Stechele, W., & Bhattacharyya, S. S. (2016). Adaptive tracking of people and vehicles using mobile platforms. *Eurasip Journal on Advances in Signal Processing, 2016*(1), [65]. <https://doi.org/10.1186/s13634-016-0356-9>
- Pearson, R. K., Neuvo, Y., Astola, J., & Gabbouj, M. (2016). Generalized Hampel Filters. *Eurasip Journal on Advances in Signal Processing, 2016*(1), [87]. <https://doi.org/10.1186/s13634-016-0383-6>
- 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>
- Akyildiz, I. F., Wang, P., & Lin, S. C. (2016). SoftWater: Software-defined networking for next-generation underwater communication systems. *Ad Hoc Networks, 46*. <https://doi.org/10.1016/j.adhoc.2016.02.016>
- Gallidabino, A., Pautasso, C., Ilvonen, V., Mikkonen, T., Systä, K., Voutilainen, J-P., & Taivalsaari, A. (2016). On the Architecture of Liquid Software: Technology Alternatives and Design Space. In *Proceedings - 2016 13th Working IEEE/IFIP Conference on Software Architecture, WICSA 2016* (pp. 122-127). IEEE. <https://doi.org/10.1109/WICSA.2016.14>
- Wang, K., Nurmi, J., & Ahonen, T. (2016). Accelerating Computation on an Android Phone with OpenCL Parallelism and Optimizing Workload Distribution between a Phone and a Cloud Service. In *2016 Intl IEEE Conferences Ubiquitous Intelligence & Computing, Advanced and Trusted Computing, Scalable Computing and Communications, Cloud and Big Data Computing, Internet of People, and Smart World Congress (UIC/ATC/ScalCom/CBDCOM/loP/SmartWorld)*, (pp. 636-642). IEEE. <https://doi.org/10.1109/UIC-ATC-ScalCom-CBDCOM-loP-SmartWorld.2016.0106>
- Mäkelä, V., Korhonen, H., Ojala, J., Järvi, A., Väänänen, K., Raisamo, R., & Turunen, M. (2016). Investigating mid-air gestures and handhelds in motion tracked environments. In *PerDis 2016 - Proceedings of the 5th ACM International Symposium on Pervasive Displays* (pp. 45-51). ACM. <https://doi.org/10.1145/2914920.2915015>
- Lin, S., Liu, Y., Plishker, W., & Bhattacharyya, S. S. (2016). A design framework for mapping vectorized synchronous dataflow graphs onto CPU-GPU platforms. In *Proceedings of the 19th International Workshop on Software and Compilers for Embedded Systems, SCOPES 2016* (pp. 20-29). ACM. <https://doi.org/10.1145/2906363.2906374>
- Kylänpää, I., & Räsänen, E. (2016). Extended Ewald summation technique. *Computer Physics Communications, 206*, 64-68. <https://doi.org/10.1016/j.cpc.2016.05.005>
- Strokina, N., Matas, J., Eerola, T., Lensu, L., & Kälviäinen, H. (2016). Detection of bubbles as concentric circular arrangements. *Machine Vision and Applications, 27*(3), 387-396. <https://doi.org/10.1007/s00138-016-0749-7>
- Park, Y., Alam, M. H., Ryu, W. J., & Lee, S. (2016). BL-LDA: Bringing bigram to supervised topic model. In *Proceedings - 2015 International Conference on Computational Science and Computational Intelligence, CSCI 2015* (pp. 83-88). [7424068] Institute of Electrical and Electronics Engineers Inc.. <https://doi.org/10.1109/CSCI.2015.146>
- Balasubramaniam, S., Jornet, J. M., Pierobon, M., & Koucheryavy, Y. (2016). Guest editorial special issue on the internet of nano things. *IEEE Internet of Things Journal, 3*(1), 1-3. <https://doi.org/10.1109/JIOT.2016.2516838>
- Cruz, C., Ferreira, J., & Oliveira, A. (2016). Supporting deterministic medium access control in wireless vehicular communications. In *2015 IEEE 82nd Vehicular Technology Conference, VTC Fall 2015 - Proceedings IEEE*. <https://doi.org/10.1109/VTCFall.2015.7391160>

- Hyrnsalmi, S., Suominen, A., & Mäntymäki, M. (2016). The influence of developer multi-homing on competition between software ecosystems. *Journal of Systems and Software*, 111, 119-127. <https://doi.org/10.1016/j.jss.2015.08.053>
- Gholibeigi, M., Heijenk, G., Moltchanov, D., & Koucheryavy, Y. (2016). Analysis of a receiver-based reliable broadcast approach for vehicular networks. *Ad Hoc Networks*, 37, 63-75. <https://doi.org/10.1016/j.adhoc.2015.08.003>
- Ivanov, S., Balasubramaniam, S., Botvich, D., & Akan, O. B. (2016). Gravity gradient routing for information delivery in fog Wireless Sensor Networks. *Ad Hoc Networks*, 46, 61-74. <https://doi.org/10.1016/j.adhoc.2016.03.011>
- Hussain, W., Airoidi, R., Hoffmann, H., Ahonen, T., & Nurmi, J. (2016). HARP2: An X-Scale Reconfigurable Accelerator-Rich Platform for Massively-Parallel Signal Processing Algorithms. *Journal of Signal Processing Systems*, 341-353. [10.1007/s11265-015-1054-9]. <https://doi.org/10.1007/s11265-015-1054-9>
- 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>
- 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>
- Multanen, J., Kultala, H., Koskela, M., Viitanen, T., Jääskeläinen, P., Takala, J., ... Cruz, C. (2016). OpenCL Programmable Exposed Datapath High Performance Low-Power Image Signal Processor. In *2016 IEEE Nordic Circuits and Systems Conference (NORCAS) IEEE*. <https://doi.org/10.1109/NORCHIP.2016.7792906>
- Zemliachenko, A., Lukin, V., Ponomarenko, N., Egiazarian, K., & Astola, J. (2016). Still image/video frame lossy compression providing a desired visual quality. *Multidimensional Systems and Signal Processing*, 27(3), 697-718. <https://doi.org/10.1007/s11045-015-0333-8>
- Sarjanoja, S., Boutellier, J., & Hannuksela, J. (2015). BM3D image denoising using heterogeneous computing platforms. In *DASIP 2015 - Proceedings of the 2015 Conference on Design and Architectures for Signal and Image Processing* (Vol. 2015-December). [7367257] IEEE COMPUTER SOCIETY PRESS. <https://doi.org/10.1109/DASIP.2015.7367257>
- 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>
- Raitoharju, M., Ali-Löytty, S., & Piché, R. (2015). Binomial Gaussian mixture filter. *Eurasip Journal on Advances in Signal Processing*, 2015(1), [36]. <https://doi.org/10.1186/s13634-015-0221-2>
- Boutellier, J., & Nyländen, T. (2015). Programming graphics processing units in the RVC-CAL dataflow language. In *Electronic Proceedings of the 2015 IEEE International Workshop on Signal Processing Systems, SiPS 2015* (Vol. 2015-December). [7344994] Institute of Electrical and Electronics Engineers Inc.. <https://doi.org/10.1109/SiPS.2015.7344994>
- Raitoharju, M., Nurminen, H., & Piché, R. (2015). Kalman filter with a linear state model for PDR+WLAN positioning and its application to assisting a particle filter. *Eurasip Journal on Advances in Signal Processing*, 2015(1), [33]. <https://doi.org/10.1186/s13634-015-0216-z>
- Rantala, J., Kangas, J., Isokoski, P., Akkil, D., Špakov, O., & Raisamo, R. (2015). Haptic feedback of gaze gestures with glasses: Localization accuracy and effectiveness. In *UbiComp and ISWC 2015 - Proceedings of the 2015 ACM International Joint Conference on Pervasive and Ubiquitous Computing and the Proceedings of the 2015 ACM International Symposium on Wearable Computers* (pp. 855-862). Association for Computing Machinery, Inc. <https://doi.org/10.1145/2800835.2804334>

- Rusu, C., & Astola, J. (2015). The extended one-dimensional discrete phase retrieval problem. In *2015 International Symposium on Signals, Circuits and Systems (ISSCS)* IEEE. <https://doi.org/10.1109/ISSCS.2015.7204029>
- Ruohonen, J., Hyrynsalmi, S., & Leppänen, V. (2015). Exploring the Stability of Software with Time-Series Cross-Sectional Data. In *Proceedings - 2nd International Workshop on Software Architecture and Metrics, SAM 2015* (pp. 41-47). Institute of Electrical and Electronics Engineers Inc.. <https://doi.org/10.1109/SAM.2015.13>
- Rantala, M., Soini, J., & Kilamo, T. (2015). Gathering useful programming data; Analysis and insights from real-time collaborative editing. In *2015 38th International Convention on Information and Communication Technology, Electronics and Microelectronics, MIPRO 2015 - Proceedings* (pp. 229-234). [7160270] The Institute of Electrical and Electronics Engineers, Inc.. <https://doi.org/10.1109/MIPRO.2015.7160270>
- Nguyen-Thanh, D., Le-Tien, T., Bui-Thu, C., & Le-Thanh, T. (2015). LTE indoor MIMO performances field measurements. In *International Conference on Advanced Technologies for Communications* (pp. 84-89). IEEE. <https://doi.org/10.1109/ATC.2014.7043361>
- Hasan, M., Hossain, E., Balasubramaniam, S., & Koucheryavy, Y. (2015). Social behavior in bacterial nanonetworks: Challenges and opportunities. *IEEE Network*, 29(1), 26-34. [7018200]. <https://doi.org/10.1109/MNET.2015.7018200>
- Michalas, A., & Dowsley, R. (2015). Towards Trusted eHealth Services in the Cloud. In *Proceedings - 2015 IEEE/ACM 8th International Conference on Utility and Cloud Computing, UCC 2015* (pp. 618-623). [7431484] Institute of Electrical and Electronics Engineers Inc.. <https://doi.org/10.1109/UCC.2015.108>
- Singh, S., Valkama, M., Epp, M., Anttila, L., Schlecker, W., & Ingber, E. (2015). Digital correction of frequency response mismatches in 2-channel time-interleaved ADCs using adaptive I/Q signal processing. *Analog Integrated Circuits and Signal Processing*, 82(3), 543-555. <https://doi.org/10.1007/s10470-014-0476-9>
- Sharmin, S., Špakov, O., & Rähä, K. J. (2015). Dynamic text presentation in print interpreting - An eye movement study of reading behaviour. *International Journal of Human-Computer Studies*, 78, 17-30. <https://doi.org/10.1016/j.ijhcs.2015.01.010>
- Yunas, S. F., Valkama, M., & Niemelä, J. (2015). Techno-Economical Comparison of Dynamic DAS and Legacy Macrocellular Densification: Capacity and Cost-Efficiency Analysis of Alternative Deployment Solutions for Outdoor Service Provisioning. *International Journal of Wireless Information Networks*, 22(4), 312-326. <https://doi.org/10.1007/s10776-015-0286-8>
- Bito, J., Cook, B. S., & Tentzeris, M. M. (2014). A multi-coil wireless power transfer system utilizing dynamic matching for in-vivo and biomedical applications. In *2014 Asia-Pacific Microwave Conference Proceedings, APMC 2014* (pp. 680-682). [7067912] Institute of Electrical and Electronics Engineers Inc..
- Nissilä, J., Heikkilä, R., Romo, I., Malaska, M., & Aho, T. (2014). BIM based schedule control for precast concrete supply chain. In *31st International Symposium on Automation and Robotics in Construction and Mining, ISARC 2014 - Proceedings* (pp. 667-671). University of Technology Sydney.
- Kim, S. C., & Bhattacharyya, S. S. (2014). Implementation of a high-throughput low-latency polyphase channelizer on GPUs Design and Architectures for Signal and Image Processing 2008. *Eurasip Journal on Advances in Signal Processing*, 2014(1). <https://doi.org/10.1186/1687-6180-2014-141>
- Meskill, B., Balasubramaniam, S., Brennan, R., Feeney, K., & Jennings, B. (2013). Federation lifecycle management incorporating coordination of bio-inspired self-management processes. *JOURNAL OF NETWORK AND SYSTEMS MANAGEMENT*, 21(4), 650-676. <https://doi.org/10.1007/s10922-013-9263-7>

- 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>
- Lee, D., Wolf, M., & Bhattacharyya, S. S. (2013). High-performance and low-energy buffer mapping method for multiprocessor DSP systems. *ACM Transactions on Embedded Computing Systems*, 12(3), [82]. <https://doi.org/10.1145/2442116.2442132>
- 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>
- Kim, S. C., Plishker, W. L., & Bhattacharyya, S. S. (2013). An efficient GPU implementation of an arbitrary resampling polyphase channelizer. In *DASIP 2013 - Proceedings of the 2013 Conference on Design and Architectures for Signal and Image Processing* (pp. 231-238). [6661548]
- Mariotti, C., Lakafosis, V., Tentzeris, M. M., & Roselli, L. (2013). An IPv6-enabled wireless shoe-mounted platform for health-monitoring. In *WiSNet 2013 - Proceedings: 2013 IEEE Topical Conference on Wireless Sensors and Sensor Networks - 2013 IEEE Radio and Wireless Week, RWW 2013* (pp. 46-48). [6488629] <https://doi.org/10.1109/WISNet.2013.6488629>
- Heulot, J., Boutellier, J., Pelcat, M., Nezan, J. F., & Aridhi, S. (2013). Applying the adaptive hybrid flow-Shop scheduling method to schedule a 3GPP LTE physical layer algorithm onto many-core digital signal processors. In *Proceedings of the 2013 NASA/ESA Conference on Adaptive Hardware and Systems, AHS 2013* (pp. 123-129). [6604235] <https://doi.org/10.1109/AHS.2013.6604235>
- 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>
- Casale-Brunet, S., Bezati, E., Alberti, C., Roquier, G., Mattavelli, M., Janneck, J. W., & Boutellier, J. (2013). Design space exploration and implementation of RVC-CAL applications using the TURNUS framework. In *DASIP 2013 - Proceedings of the 2013 Conference on Design and Architectures for Signal and Image Processing* (pp. 341-342). [6661566]
- Ellervee, P., & Nurmi, J. (2013). Guest editorial. *Microprocessors and Microsystems*, 37(4-5), 430-431. <https://doi.org/10.1016/j.micpro.2013.05.002>
- Boutellier, J., Ghazi, A., Silvén, O., & Ersfolk, J. (2013). High-performance programs by source-level merging of RVC-CAL dataflow actors. In *2013 IEEE Workshop on Signal Processing Systems, SiPS 2013* (pp. 360-365). [6674533] Institute of Electrical and Electronics Engineers Inc..
- Wang, L. H., Shen, C. C., & Bhattacharyya, S. S. (2013). Parameterized core functional dataflow graphs and their application to design and implementation of wireless communication systems. In *2013 IEEE Workshop on Signal Processing Systems, SiPS 2013* (pp. 1-6). [6674471] Institute of Electrical and Electronics Engineers Inc..
- 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>
- 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>
- Ghazi, A., Boutellier, J., Hannuksela, J., Shahabuddin, S., & Silvén, O. (2013). Programmable implementation of zero-crossing demodulator on an application specific processor. In *2013 IEEE Workshop on Signal Processing Systems, SiPS 2013* (pp. 231-236). [6674510] Institute of Electrical and Electronics Engineers Inc..

Zhou, Z., Desnos, K., Pelcat, M., Nezan, J. F., Plishker, W., & Bhattacharyya, S. S. (2013). Scheduling of parallelized synchronous dataflow actors. In *2013 International Symposium on System-on-Chip, SoC 2013 - Proceedings* [6675271] IEEE COMPUTER SOCIETY PRESS.

Rantala, J., Salminen, K., Raisamo, R., & Surakka, V. (2013). Touch gestures in communicating emotional intention via vibrotactile stimulation. *International Journal of Human-Computer Studies*, 71(6), 679-690.
<https://doi.org/10.1016/j.ijhcs.2013.02.004>

Rifai, A., Debourg, E., Bouaziz, S., Traille, A., Pons, P., Aubert, H., & Tentzeris, M. (2013). Wireless chipless passive microfluidic temperature sensor. In *2013 Transducers and Eurosensors XXVII: The 17th International Conference on Solid-State Sensors, Actuators and Microsystems, TRANSDUCERS and EUROSENSORS 2013* (pp. 1024-1027). [6626944] <https://doi.org/10.1109/Transducers.2013.6626944>

Boutellier, J., Lundbom, I., Janhunen, J., Ylimainen, J., & Hannuksela, J. (2012). Application-specific instruction processor for extracting local binary patterns. In *DASIP 2012 - Proceedings of the 2012 Conference on Design and Architectures for Signal and Image Processing* (pp. 82-89). [6385363]

Mineraud, J., Balasubramaniam, S., Kangasharju, J., & Donnelly, W. (2012). fs-PGBR: A scalable and delay sensitive cloud routing protocol. In *SIGCOMM'12 - Proceedings of the ACM SIGCOMM 2012 Conference Applications, Technologies, Architectures, and Protocols for Computer Communication* (pp. 301-302)
<https://doi.org/10.1145/2342356.2342420>

Kim, S. C., Plishker, W. L., Bhattacharyya, S. S., & Cavallaro, J. R. (2012). GPU-based acceleration of symbol timing recovery. In *DASIP 2012 - Proceedings of the 2012 Conference on Design and Architectures for Signal and Image Processing* (pp. 273-280). [6385393]

Kim, S., Kawahara, Y., & Tentzeris, M. M. (2012). Inkjet-printed monopole antennas for enhanced-range WBAN and wearable biomonitoring application. In *MobileHealth'12 - Proceedings of the 2nd ACM International Workshop on Pervasive Wireless Healthcare* (pp. 33-38) <https://doi.org/10.1145/2248341.2248355>

Chukhman, I., Plishker, W., & Bhattacharyya, S. S. (2012). Instrumentation-driven model detection for dataflow graphs. In *2012 International Symposium on System on Chip, SoC 2012* [6376361] <https://doi.org/10.1109/ISSoC.2012.6376361>

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>

Wang, L. H., Shen, C. C., Seetharaman, G., Palaniappan, K., & Bhattacharyya, S. S. (2012). Multidimensional dataflow graph modeling and mapping for efficient GPU implementation. In *Proceedings - 2012 IEEE Workshop on Signal Processing Systems, SiPS 2012* (pp. 300-305). [6363272] <https://doi.org/10.1109/SiPS.2012.10>

Alam, M. H., Ha, J. W., & Lee, S. K. (2012). Novel approaches to crawling important pages early. *Knowledge and Information Systems*, 33(3), 707-734. <https://doi.org/10.1007/s10115-012-0535-4>

Zaki, G. F., Plishker, W., Bhattacharyya, S. S., & Fruth, F. (2012). Partial expansion graphs: Exposing parallelism and dynamic scheduling opportunities for DSP applications. In *Proceedings - 2012 IEEE 23rd International Conference on Application-Specific Systems, Architectures and Processors, ASAP 2012* (pp. 86-93). [6341457]
<https://doi.org/10.1109/ASAP.2012.14>

Fikadu, M. K., Elmusrati, M., & Virrankoski, R. (2012). Power allocation in multi-node cooperative network in Rician fading channels. In *2012 IEEE 8th International Conference on Wireless and Mobile Computing, Networking and Communications, WiMob 2012* (pp. 496-501). [6379119] <https://doi.org/10.1109/WiMOB.2012.6379119>

- 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>
- 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)
- 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>
- 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>
- 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>
- Brumley, B., & Page, D. (2011). Bit-sliced binary normal basis multiplication. In *Proceedings - 20th IEEE Symposium on Computer Arithmetic, ARITH-20* (pp. 205-212). [5992128] <https://doi.org/10.1109/ARITH.2011.36>
- Cho, I., Shen, C. C., Potbhare, S., Bhattacharyya, S. S., & Goldsman, N. (2011). Design methods for wireless sensor network building energy monitoring systems. In *Proceedings of the 36th Annual IEEE Conference on Local Computer Networks, LCN 2011* (pp. 974-981). [6115580] <https://doi.org/10.1109/LCN.2011.6115580>
- Qureshi, F., & Gustafsson, O. (2011). Generation of all radix-2 fast Fourier transform algorithms using binary trees. In *2011 20th European Conference on Circuit Theory and Design, ECCTD 2011* (pp. 677-680). [6043634] <https://doi.org/10.1109/ECCTD.2011.6043634>
- Shaker, G., Rida, A., Safavi-Naeini, S., Tentzeris, M. M., & Nikolaou, S. (2011). Inkjet printing of UWB antennas on paper based substrates. In *Proceedings of the 5th European Conference on Antennas and Propagation, EUCAP 2011* (pp. 3001-3004). [5782210]
- 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>
- Soldatos, A. G., Karamanakos, P. P., Pavlou, K. G., & Manias, S. N. (2010). Nonlinear robust control for dc-dc converters. In *2010 IEEE International Conference on Electronics, Circuits, and Systems, ICECS 2010 - Proceedings* (pp. 994-997) <https://doi.org/10.1109/ICECS.2010.5724681>
- Brumley, B. B., & Jarvinen, K. U. (2010). Conversion algorithms and implementations for koblitz curve cryptography. *IEEE Transactions on Computers*, 59(1), 81-92. [5255226]. <https://doi.org/10.1109/TC.2009.132>
- Christophe, F., Sell, R., Bernard, A., & Coatanéa, E. (2010). OPAS: Ontology processing for assisted synthesis of conceptual design solutions. In *Proceedings of the ASME International Design Engineering Technical Conferences and Computers and Information in Engineering Conference 2009, DETC2009* (PART A ed., Vol. 5, pp. 249-260) <https://doi.org/10.1115/DETC2009-87776>
- Caglayan, H., Bulu, I., Loncar, M., & Ozbay, E. (2008). Cavity formation in split ring resonators. *Photonics and Nanostructures - Fundamentals and Applications*, 6(3-4), 200-204. <https://doi.org/10.1016/j.photonics.2008.09.001>

Aref, M. M., Gholami, P., & Taghirad, H. D. (2008). Dynamic and sensitivity analysis of KNTU CDRPM: A cable driven redundant parallel manipulator. In *2008 IEEE/ASME International Conference on Mechatronics and Embedded Systems and Applications, MESA 2008* (pp. 528-533). [4735650] <https://doi.org/10.1109/MESA.2008.4735650>

Ozbay, E., Bulu, I., Aydin, K., Caglayan, H., & Guven, K. (2004). Physics and applications of photonic crystals. *Photonics and Nanostructures - Fundamentals and Applications*, 2(2), 87-95. <https://doi.org/10.1016/j.photonics.2004.08.001>