

Koivuluoma, Mikko et al. "Influences of digital band-pass filtering on the BCG waveform". *BIOSIGNALS 2008 - Proceedings of the 1st International Conference on Bio-inspired Systems and Signal Processing*. 2008, 84-89.

Acimovic, Jugoslava *Neural networks, cell cultures and some older work on data analysis*.. 2009.

Acimovic, Jugoslava et al. "Computational tools for assessing the properties of 2D neural cell cultures". Johnson, Don (toim.). *Eighteenth Annual Computational Neuroscience Meeting: CNS\*2009*. Luku Volume 10 (Suppl 1), Berlin: BioMed Central. 2009, P170.

Acimovic, Jugoslava, Tuomo Mäki-Marttunen, ja Marja-Leena Linne "Computational modeling of growth in cortical cultures using the NETMORPH simulation tool". *Neuroscience 2010, 40th Annual Meeting, San Diego, USA, 13-17 November 2010*. 2010, 2 p.

Boutellier, J., O. Silvén ja M. Raulet "Automatic synthesis of TTA processor networks from RVC-CAL dataflow programs". *2011 IEEE Workshop on Signal Processing Systems, SiPS 2011, Proceedings*. 2011, 25-30.  
<https://doi.org/10.1109/SiPS.2011.6088944>

Zabrodina, Victoria et al. "Blind estimation of mixed noise parameters in images using robust regression curve fitting". *European Signal Processing Conference*. 2011, 1135-1139.

Kedilaya, Soujanya et al. "Model-based precision analysis and optimization for digital signal processors". *European Signal Processing Conference*. 2011, 506-510.

Bhattacharyya, Shuvra S. et al. "Modeling and optimization of dynamic signal processing in resource-aware sensor networks". *2011 8th IEEE International Conference on Advanced Video and Signal Based Surveillance, AVSS 2011*. 2011, 449-454. <https://doi.org/10.1109/AVSS.2011.6027374>

Ivanov, Stepan, Dmitri Botvich ja Sasitharan Balasubramaniam "On delay distribution in IEEE 802.11 wireless networks". *16th IEEE Symposium on Computers and Communications, ISCC'11*. 2011, 254-256.  
<https://doi.org/10.1109/ISCC.2011.5983849>

Boutellier, Jani, Olli Silven ja Mickael Raulet "Scheduling of CAL actor networks based on dynamic code analysis". *2011 IEEE International Conference on Acoustics, Speech, and Signal Processing, ICASSP 2011 - Proceedings*. 2011, 1609-1612. <https://doi.org/10.1109/ICASSP.2011.5946805>

Sane, Nimish et al. "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>

Zaki, George F. et al. "Vectorization and mapping of software defined radio applications on heterogeneous multi-processor platforms". *2011 IEEE Workshop on Signal Processing Systems, SiPS 2011, Proceedings*. 2011, 31-36.  
<https://doi.org/10.1109/SiPS.2011.6088945>

Kaski, Samuel ja Jaakko Peltonen. "Dimensionality reduction for data visualization". *IEEE Signal Processing Magazine*. 2011, 28(2). 100-104. <https://doi.org/10.1109/MSP.2010.940003>

Gu, Ruirui et al. "Exploiting statically schedulable regions in dataflow programs". *Journal of Signal Processing Systems*. 2011, 63(1). 129-142. <https://doi.org/10.1007/s11265-009-0445-1>

Pursiainen, S. et al. "Forward simulation and inverse dipole localization with the lowest order Raviart - Thomas elements for electroencephalography". *Inverse Problems*. 2011. 27(4). <https://doi.org/10.1088/0266-5611/27/4/045003>

Mäki-Marttunen, Tuomo et al. "Effects of structure on spontaneous activity in simulated neuronal networks". *Proceedings of Mathematical Neuroscience (ICMS 2011), April 11-13, 2011, Edinburgh, Scotland*. 2011.

Bhattacharyya, Shuvra S. et al. "Overview of the MPEG reconfigurable video coding framework". *Journal of Signal Processing Systems*. 2011, 63(2). 251-263. <https://doi.org/10.1007/s11265-009-0399-3>

Boutellier, Jani et al. "Quasi-static scheduling of CAL actor networks for reconfigurable video coding". *Journal of Signal Processing Systems*. 2011, 63(2). 191-202. <https://doi.org/10.1007/s11265-009-0389-5>

Acimovic, Jugoslava "Emergence of global and local structural features during development of neuronal networks". *Proceedings of the Eighth International Workshop on Computational Systems Biology, WCSB 2011, June 6-8, 2011, Zürich, Switzerland*. TICSP Series. Tampere: TICSP. 2011.

Mäki-Marttunen, Tuomo Mikael et al. "Effects of local structure of neuronal networks on spiking activity in silico". ja Fellous, Jean-Marc Prinz, Astrid (toimittaneet). *Twentieth Annual Computational Neuroscience Meeting: CNS\*2011*. Stockholm: BioMed Central. 2011, P202.

Boutellier, Jani et al. "Application-specific instruction processor for extracting local binary patterns". *DASIP 2012 - Proceedings of the 2012 Conference on Design and Architectures for Signal and Image Processing*. 2012, 82-89.

Shen, Chung Ching et al. "Design and synthesis for multimedia systems using the targeted dataflow interchange format". *IEEE Transactions on Multimedia*. 2012, 14(3 PART1). 630-640. <https://doi.org/10.1109/TMM.2012.2191397>

Peltonen, Jaakko ja Konstantinos Georgatzis "Efficient optimization for data visualization as an information retrieval task". *2012 IEEE International Workshop on Machine Learning for Signal Processing - Proceedings of MLSP 2012*. 2012. <https://doi.org/10.1109/MLSP.2012.6349797>

Kim, Scott C. et al. "GPU-based acceleration of symbol timing recovery". *DASIP 2012 - Proceedings of the 2012 Conference on Design and Architectures for Signal and Image Processing*. 2012, 273-280.

Kee, Hojin et al. "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>

Wang, Lai Huei et al. "Multidimensional dataflow graph modeling and mapping for efficient GPU implementation". *Proceedings - 2012 IEEE Workshop on Signal Processing Systems, SiPS 2012*. 2012, 300-305. <https://doi.org/10.1109/SiPS.2012.10>

Won, Stephen, Chung Ching Shen ja Shuvra S. Bhattacharyya "NT-SIM: A co-simulator for networked signal processing applications". *Proceedings of the 20th European Signal Processing Conference, EUSIPCO 2012*. 2012, 1094-1098.

Wu, Shenpei et al. "Parameterized scheduling for signal processing systems using topological patterns". *2012 IEEE International Conference on Acoustics, Speech, and Signal Processing, ICASSP 2012 - Proceedings*. 2012, 1561-1564. <https://doi.org/10.1109/ICASSP.2012.6288190>

Zhou, Zheng et al. "Systematic integration of flowgraph- and module-level parallelism in implementation of DSP applications on multiprocessor systems-on-chip". *ICSP 2012 - 2012 11th International Conference on Signal Processing, Proceedings*. 2012, 402-408. <https://doi.org/10.1109/ICoSP.2012.6491686>

Kim, Scott C., William L. Plishker ja Shuvra S. Bhattacharyya "An efficient GPU implementation of an arbitrary resampling polyphase channelizer". *DASIP 2013 - Proceedings of the 2013 Conference on Design and Architectures for Signal and Image Processing*. 2013, 231-238.

Betrouni, N. et al. "An image guided treatment platform for prostate cancer photodynamic therapy". *2013 35th Annual International Conference of the IEEE Engineering in Medicine and Biology Society, EMBC 2013*. 2013, 370-373. <https://doi.org/10.1109/EMBC.2013.6609514>

Cho, Inkeun et al. "A system-level design approach for dynamic resource coordination and energy optimization in sensor network platforms". *Conference Record of the 47th Asilomar Conference on Signals, Systems and Computers*. IEEE COMPUTER SOCIETY PRESS. 2013, 1436-1441. <https://doi.org/10.1109/ACSSC.2013.6810533>

Boutellier, Jani, Mickaël Raulet ja Olli Silvén. "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>

Kong, Lingjia et al. "DBComposer: An R package for integrative analysis and management of gene expression microarray data". *2013 IEEE International Workshop on Genomic Signal Processing and Statistics, GENSIPS 2013 - Proceedings*. 2013, 92-93. <https://doi.org/10.1109/GENSIPS.2013.6735944>

Casale-Brunet, S. et al. "Design space exploration and implementation of RVC-CAL applications using the TURNUS framework". *DASIP 2013 - Proceedings of the 2013 Conference on Design and Architectures for Signal and Image Processing*. 2013, 341-342.

Iosifidis, Alexandros, Anastasios Tefas ja Ioannis Pitas "Dynamic action classification based on iterative data selection and Feedforward Neural networks". *European Signal Processing Conference*. European Signal Processing Conference, EUSIPCO. 2013.

Iosifidis, Alexandros, Anastasios Tefas ja Ioannis Pitas. "Dynamic action recognition based on dynemes and Extreme Learning Machine". *Pattern Recognition Letters*. 2013, 34(15). 1890-1898. <https://doi.org/10.1016/j.patrec.2012.10.019>

Boutellier, J. et al. "High-performance programs by source-level merging of RVC-CAL dataflow actors". *2013 IEEE Workshop on Signal Processing Systems, SiPS 2013*. Institute of Electrical and Electronics Engineers Inc. 2013, 360-365.

Peltonen, Jaakko ja Ziyuan Lin "Multiplicative update for fast optimization of information retrieval based neighbor embedding". *2013 IEEE International Workshop on Machine Learning for Signal Processing - Proceedings of MLSP 2013*. 2013. <https://doi.org/10.1109/MLSP.2013.6661899>

Iosifidis, Alexandros, Anastasios Tefas ja Ioannis Pitas "Multi-view human action recognition: A survey". *Proceedings - 2013 9th International Conference on Intelligent Information Hiding and Multimedia Signal Processing, IIH-MSP 2013*. IEEE COMPUTER SOCIETY PRESS. 2013, 522-525. <https://doi.org/10.1109/IIH-MSP.2013.135>

Wang, Lai Huei, Chung Ching Shen ja Shuvra S. Bhattacharyya "Parameterized core functional dataflow graphs and their application to design and implementation of wireless communication systems". *2013 IEEE Workshop on Signal Processing Systems, SiPS 2013*. Institute of Electrical and Electronics Engineers Inc. 2013, 1-6.

Wang, Lai Huei et al. "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>

Ghazi, Amanullah et al. "Programmable implementation of zero-crossing demodulator on an application specific processor". *2013 IEEE Workshop on Signal Processing Systems, SiPS 2013*. Institute of Electrical and Electronics Engineers Inc. 2013, 231-236.

Efimushkina, T., K. Egiazarian, ja M. Gabbouj "Rate-distortion based reversible watermarking for JPEG images with quality factors selection". *2013 4th European Workshop on Visual Information Processing, EUVIP 2013, Paris, France, 10.-12.2013*. European Workshop on Visual Information Processing. University of Paris 13. 2013, 94-99.

Iosifidis, Alexandros, Anastasios Tefas ja Ioannis Pitas "Representative class vector clustering-based discriminant analysis". *Proceedings - 2013 9th International Conference on Intelligent Information Hiding and Multimedia Signal Processing, IIH-MSP 2013*. IEEE COMPUTER SOCIETY PRESS. 2013, 526-529. <https://doi.org/10.1109/IIH-MSP.2013.136>

- Zaki, George F. et al. "Integration of dataflow-based heterogeneous multiprocessor scheduling techniques in GNU radio". *Journal of Signal Processing Systems*. 2013, 70(2). 177-191. <https://doi.org/10.1007/s11265-012-0696-0>
- Iosifidis, Alexandros, Anastasios Tefas ja Ioannis Pitas. "Multi-view action recognition based on action volumes, fuzzy distances and cluster discriminant analysis". *Signal Processing*. 2013, 93(6). 1445-1457. <https://doi.org/10.1016/j.sigpro.2012.08.015>
- Mäki-Marttunen, Tuomo Mikael et al. "On the effect of network structure and synaptic mechanisms on sustained bursting activity". ja Cymbalyuk, Gennady Prinz, Astrid (toimittaneet). *Twenty Second Annual Computational Neuroscience Meeting: CNS\*2013*. Luku 14(Suppl 1), Paris, France: BioMed Central. 2013, P247.
- Yi, Xiaohua et al. "Passive wireless antenna sensor for strain and crack sensing - Electromagnetic modeling, simulation, and testing". *Smart Materials and Structures*. 2013. 22(8). <https://doi.org/10.1088/0964-1726/22/8/085009>
- Cho, Inkeun et al. "Configurable, resource-optimized FFT architecture for OFDM communication". *2013 IEEE International Conference on Acoustics, Speech, and Signal Processing, ICASSP 2013 - Proceedings*. 2013, 2746-2750. <https://doi.org/10.1109/ICASSP.2013.6638156>
- Hautala, Ilkka, Jani Boutellier ja Jari Hannuksela "Programmable lowpower implementation of the HEVC Adaptive Loop Filter". *2013 IEEE International Conference on Acoustics, Speech, and Signal Processing, ICASSP 2013 - Proceedings*. 2013, 2664-2668. <https://doi.org/10.1109/ICASSP.2013.6638139>
- Yviquel, Hervé et al. "Automated design of networks of transport-triggered architecture processors using dynamic dataflow programs". *Signal Processing: Image Communication*. 2013, 28(10). 1295-1302. <https://doi.org/10.1016/j.image.2013.08.013>
- Boutellier, Jani ja Olli Silvén. "Towards generic embedded multiprocessing for RVC-CAL dataflow programs". *Journal of Signal Processing Systems*. 2013, 73(2). 137-142. <https://doi.org/10.1007/s11265-013-0737-3>
- Ozan, Ezgi Can et al. "An Unsupervised Audio Segmentation Method Using Bayesian Information Criterion". *6th International Symposium on Communications, Control & Signal Processing, ISCCSP, 21-23.5.2014, Athens, Greece*. NEW YORK: IEEE. 2014, 640-643. <https://doi.org/10.1109/ISCCSP.2014.6877956>
- Bhattacharyya, Shuvra S. et al. "Data-driven stream mining systems for computer vision". *Advances in Computer Vision and Pattern Recognition*. Advances in Computer Vision and Pattern Recognition. SPRINGER-VERLAG LONDON LTD. 2014, 249-264. [https://doi.org/10.1007/978-3-319-09387-1\\_12](https://doi.org/10.1007/978-3-319-09387-1_12)
- Korpi, Dani, Lauri Anttila, ja Mikko Valkama "Impact of received signal on self-interference channel estimation and achievable rates in in-band full-duplex transceivers". *2014 48th Asilomar Conference on Signals, Systems and Computers*. IEEE COMPUTER SOCIETY PRESS. 2014, 975-982. <https://doi.org/10.1109/ACSSC.2014.7094599>
- Kim, Scott C. ja Shuvra S. Bhattacharyya. "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. 2014(1). <https://doi.org/10.1186/1687-6180-2014-141>
- Iosifidis, Alexandros, Anastasios Tefas ja Ioannis Pitas "Minimum Variance Extreme Learning Machine for human action recognition". *ICASSP, IEEE International Conference on Acoustics, Speech and Signal Processing - Proceedings*. The Institute of Electrical and Electronics Engineers, Inc. 2014, 5427-5431. <https://doi.org/10.1109/ICASSP.2014.6854640>
- Kovács, Peter, Kaveh Samiee, ja Moncef Gabbouj "On application of rational Discrete Short Time Fourier Transform in epileptic seizure classification". *2014 IEEE International Conference on Acoustics, Speech and Signal processing (ICASSP), May 4-9 2014, Florence, Italy*. IEEE International Conference on Acoustics, Speech and Signal Processing. Piscataway: IEEE. 2014, 5839-5843. <https://doi.org/10.1109/ICASSP.2014.6854723>

Michalás, Antonis ja Nikos Komninos "The lord of the sense: A privacy preserving reputation system for participatory sensing applications". *2014 IEEE Symposium on Computers and Communications, ISCC 2014 - Proceedings*. Institute of Electrical and Electronics Engineers Inc. 2014. <https://doi.org/10.1109/ISCC.2014.6912480>

Lee, Chang Shen et al. "Dynamic, data-driven spectrum management in cognitive small cell networks". *2014, 8th International Conference on Signal Processing and Communication Systems, ICSPCS 2014 - Proceedings*. Institute of Electrical and Electronics Engineers Inc. 2014. <https://doi.org/10.1109/ICSPCS.2014.7021121>

Barford, Lee, Shuvra S. Bhattacharyya ja Yanzhou Liu "Data flow algorithms for processors with vector extensions: Handling actors with internal state". *2014 IEEE Global Conference on Signal and Information Processing, GlobalSIP 2014*. Institute of Electrical and Electronics Engineers Inc. 2014, 20-24. <https://doi.org/10.1109/GlobalSIP.2014.7032070>

Heulot, Julien et al. "Just-in-time scheduling techniques for multicore signal processing systems". *2014 IEEE Global Conference on Signal and Information Processing, GlobalSIP 2014*. Institute of Electrical and Electronics Engineers Inc. 2014, 25-29. <https://doi.org/10.1109/GlobalSIP.2014.7032071>

Hu, Sudeng, Lina Jin ja C.-C. Jay Kuo "Compressed video quality assessment with modified MSE". *2014 Asia-Pacific Signal and Information Processing Association Annual Summit and Conference, APSIPA 2014*. The Institute of Electrical and Electronics Engineers, Inc. 2014. <https://doi.org/10.1109/APSIPA.2014.7041643>

De Wit, J. J M, R. I A Harmanny ja P. Molchanov "Radar micro-Doppler feature extraction using the Singular Value Decomposition". *2014 International Radar Conference, Radar 2014*. The Institute of Electrical and Electronics Engineers, Inc. 2014. <https://doi.org/10.1109/RADAR.2014.7060268>

Iosifidis, Alexandros, Anastasios Tefas ja Ioannis Pitas. "Discriminant Bag of Words based representation for human action recognition". *Pattern Recognition Letters*. 2014, 49. 185-192. <https://doi.org/10.1016/j.patrec.2014.07.011>

Iosifidis, Alexandros, Anastasios Tefas ja Ioannis Pitas. "Kernel reference discriminant analysis". *Pattern Recognition Letters*. 2014, 49. 85-91. <https://doi.org/10.1016/j.patrec.2014.06.013>

Irofti, Paul ja Bogdan Dumitrescu "GPU parallel implementation of the approximate K-SVD algorithm using OpenCL". *2014 Proceedings of the 22nd European Signal Processing Conference (EUSIPCO)*. European Signal Processing Conference, EUSIPCO. 2014, 271-275.

Iosifidis, Alexandros et al. "Human action recognition in stereoscopic videos based on bag of features and disparity pyramids". *European Signal Processing Conference*. European Signal Processing Conference, EUSIPCO. 2014, 1317-1321.

Iosifidis, Alexandros, Anastasios Tefas ja Ioannis Pitas. "Class-Specific Reference Discriminant Analysis With Application in Human Behavior Analysis". *IEEE Transactions on Human-Machine Systems*. 2014, 45(3). 315-326. <https://doi.org/10.1109/THMS.2014.2379274>

Efimushkina, T., M. Gabbouj ja K. Samuylov. "Analytical model in discrete time for cross-layer video communication over LTE". *Automatic Control and Computer Sciences*. 2015, 48(6). 345-357. <https://doi.org/10.3103/S0146411614060029>

Singh, Simran et al. "Digital correction of frequency response mismatches in 2-channel time-interleaved ADCs using adaptive I/Q signal processing". *Analog Integrated Circuits and Signal Processing*. 2015, 82(3). 543-555. <https://doi.org/10.1007/s10470-014-0476-9>

Şimşekli, Umut, Tuomas Virtanen ja Ali Taylan Cemgil. "Non-negative tensor factorization models for Bayesian audio processing". *Digital Signal Processing*. 2015, 47. 178-191. <https://doi.org/10.1016/j.dsp.2015.03.011>

Galinina, Olga et al. "Smart home gateway system over Bluetooth low energy with wireless energy transfer capability". *Eurasip Journal on Wireless Communications and Networking*. 2015. 2015(1). <https://doi.org/10.1186/s13638-015-0393-3>

Dricot, Antoine et al. "Subjective evaluation of Super Multi-View compressed contents on high-end light-field 3D displays". *Signal Processing: Image Communication*. 2015, 39(Part B). 369–385. <https://doi.org/10.1016/j.image.2015.04.012>

Ponomarenko, Nikolay et al. "Image database TID2013: Peculiarities, results and perspectives". *Signal Processing: Image Communication*. 2015, 30. 57-77. <https://doi.org/10.1016/j.image.2014.10.009>

Joutsijoki, Henry et al. "Classification of iPSC colony images using hierarchical strategies with support vector machines". *IEEE SSCI 2014 - 2014 IEEE Symposium Series on Computational Intelligence - CIDM 2014: 2014 IEEE Symposium on Computational Intelligence and Data Mining, Proceedings*. The Institute of Electrical and Electronics Engineers, Inc. 2015, 86-92. <https://doi.org/10.1109/CIDM.2014.7008152>

Hukkanen, Jenni, Pekka Astola, ja Ioan Tabus "Lossless compression of regions-of-interest from retinal images". *EUVIP 2014 - 5th European Workshop on Visual Information Processing*. The Institute of Electrical and Electronics Engineers, Inc. 2015. <https://doi.org/10.1109/EUVIP.2014.7018394>

Iosifidis, Alexandros, Anastastios Tefas ja Ioannis Pitas. "On the kernel Extreme Learning Machine classifier". *Pattern Recognition Letters*. 2015, 54. 11-17. <https://doi.org/10.1016/j.patrec.2014.12.003>

Höynälänmaa, Tommi. "Multiresolution analysis for compactly supported interpolating tensor product wavelets". *International Journal of Wavelets Multiresolution and Information Processing*. 2015. 13(2). <https://doi.org/10.1142/S0219691315500101>

Rebeiz, Eric et al. "Spectrum Sensing under RF Non-Linearities: Performance Analysis and DSP-Enhanced Receivers". *IEEE Transactions on Signal Processing*. 2015, 63(8). 1950-1964. <https://doi.org/10.1109/TSP.2015.2401532>

Zaki, George et al. "Partial expansion of dataflow graphs for resource-aware scheduling of multicore signal processing systems". *Conference Record of the 48th Asilomar Conference on Signals, Systems and Computers*. IEEE COMPUTER SOCIETY PRESS. 2015, 385-392. <https://doi.org/10.1109/ACSSC.2014.7094469>

Boutellier, Jani et al. "Actor Merging for Dataflow Process Networks". *IEEE Transactions on Signal Processing*. 2015, 63(10). 2496-2508. <https://doi.org/10.1109/TSP.2015.2411229>

Schiopu, Ionut ja Ioan Tabus "Lossy-to-lossless progressive coding of depth-maps". *International Symposium on Signals, Circuits and Systems (ISSCS)*. Iasi, Romania. 2015, 1 - 4. <https://doi.org/10.1109/ISSCS.2015.7203966>

Zhu, Shuyuan, Bing Zeng, ja Moncef Gabbouj. "Adaptive sampling for compressed sensing based image compression". *Journal of Visual Communication and Image Representation*. 2015, 30. 94-105. <https://doi.org/10.1016/j.jvcir.2015.03.006>

Kimionis, John et al. "3D/inkjet-printed origami antennas for multi-direction RF harvesting". *2015 IEEE MTT-S International Microwave Symposium, IMS 2015*. Institute of Electrical and Electronics Engineers Inc. 2015. <https://doi.org/10.1109/MWSYM.2015.7166878>

Mariotti, Chiara et al. "Additively manufactured multilayer high performance RF passive components on cellulose substrates for internet-of-things electronic circuits". *2015 IEEE MTT-S International Microwave Symposium, IMS 2015*. Institute of Electrical and Electronics Engineers Inc. 2015. <https://doi.org/10.1109/MWSYM.2015.7166924>

Kim, Sangkil et al. "A flexible hybrid printed RF energy harvester utilizing catalyst-based copper printing technologies for far-field RF energy harvesting applications". *2015 IEEE MTT-S International Microwave Symposium, IMS 2015*. Institute of Electrical and Electronics Engineers Inc. 2015. <https://doi.org/10.1109/MWSYM.2015.7166723>

Bito, Jo, Jimmy G. Hester ja Manos M. Tentzeris "Ambient energy harvesting from a two-way talk radio for flexible wearable devices utilizing inkjet printing masking". *2015 IEEE MTT-S International Microwave Symposium, IMS 2015*. Institute of Electrical and Electronics Engineers Inc. 2015. <https://doi.org/10.1109/MWSYM.2015.7167079>

Onose, Alexandru ja Bogdan Dumitrescu. "Adaptive Randomized Coordinate Descent for Sparse Systems: Lasso and Greedy Algorithms". *IEEE Transactions on Signal Processing*. 2015, 63(15). 4091-4101. <https://doi.org/10.1109/TSP.2015.2436369>

Azzari, Lucio ja Alessandro Foi "Collaborative filtering based on group coordinates for smoothing and directional sharpening". *ICASSP, IEEE International Conference on Acoustics, Speech and Signal Processing - Proceedings*. IEEE. 2015, 1573-1577. <https://doi.org/10.1109/ICASSP.2015.7178235>

Iosifidis, Alexandros, Anastasios Tefas ja Ioannis Pitas "Enhancing class discrimination in Kernel Discriminant Analysis". *ICASSP, IEEE International Conference on Acoustics, Speech and Signal Processing - Proceedings*. The Institute of Electrical and Electronics Engineers, Inc. 2015, 1926-1930. <https://doi.org/10.1109/ICASSP.2015.7178306>

Baby, Deepak et al. "Exemplar-based speech enhancement for deep neural network based automatic speech recognition". *ICASSP, IEEE International Conference on Acoustics, Speech and Signal Processing - Proceedings*. The Institute of Electrical and Electronics Engineers, Inc. 2015, 4485-4489. <https://doi.org/10.1109/ICASSP.2015.7178819>

Mygdalis, Vasileios et al. "Exploiting subclass information in one-class support vector machine for video summarization". *ICASSP, IEEE International Conference on Acoustics, Speech and Signal Processing - Proceedings*. The Institute of Electrical and Electronics Engineers, Inc. 2015, 2259-2263. <https://doi.org/10.1109/ICASSP.2015.7178373>

Dumitrescu, Bogdan et al. "Low-complexity robust DOA estimation". *ICASSP, IEEE International Conference on Acoustics, Speech and Signal Processing - Proceedings*. The Institute of Electrical and Electronics Engineers, Inc. 2015, 2794-2798. <https://doi.org/10.1109/ICASSP.2015.7178480>

Barker, Thomas, Tuomas Virtanen ja Niels Henrik Pontoppidan "Low-Latency Sound-Source-Separation using Non-Negative Matrix Factorisation with Coupled Analysis and Synthesis Dictionaries". *2015 IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP)*. IEEE. 2015, 241-245. <https://doi.org/10.1109/ICASSP.2015.7177968>

Hurmala, Antti, Rahim Saeidi, ja Tuomas Virtanen "Similarity induced group sparsity for non-negative matrix factorisation". *ICASSP, IEEE International Conference on Acoustics, Speech and Signal Processing - Proceedings*. The Institute of Electrical and Electronics Engineers, Inc. 2015, 4425-4429. <https://doi.org/10.1109/ICASSP.2015.7178807>

Rusu, Corneliu ja Jaakko Astola "The extended one-dimensional discrete phase retrieval problem". *2015 International Symposium on Signals, Circuits and Systems (ISSCS)*. IEEE. 2015. <https://doi.org/10.1109/ISSCS.2015.7204029>

Akar, Gozde B. ja Atanas Gotchev "MOBILE3DTV: Content delivery optimization over DVB-H system". *SMPTE International Conference on Stereoscopic 3D for Media and Entertainment*. SMPTE. 2015. <https://doi.org/10.5594/M001417>

Sofotasios, Paschalis C. et al. "Solutions to integrals involving the marcum Q-function and applications". *IEEE Signal Processing Letters*. 2015, 22(10). 1752-1756. <https://doi.org/10.1109/LSP.2015.2432064>

Sikiö, Minna et al. "The effect of region of interest size on textural parameters". *2015 9th International Symposium on Image and Signal Processing and Analysis (ISPA)*. IEEE. 2015, 149-153. <https://doi.org/10.1109/ISPA.2015.7306049>

Huttunen, Heikki ja Jussi Tohka. "Model selection for linear classifiers using Bayesian error estimation". *Pattern Recognition*. 2015, 48(11). 3739-3748. <https://doi.org/10.1016/j.patcog.2015.05.005>

Baby, Deepak et al. "Coupled dictionaries for exemplar-based speech enhancement and automatic speech recognition". *Ieee-Acm transactions on audio speech and language processing*. 2015, 23(11). 1788-1799. <https://doi.org/10.1109/TASLP.2015.2450491>

Sofotasios, Paschalis C. et al. "Entropy and Channel Capacity under Optimum Power and Rate Adaptation over Generalized Fading Conditions". *IEEE Signal Processing Letters*. 2015, 22(11). 2162-2166. <https://doi.org/10.1109/LSP.2015.2464221>

Nurminen, Henri et al. "Robust Inference for State-Space Models with Skewed Measurement Noise". *IEEE Signal Processing Letters*. 2015, 22(11). 1898-1902. <https://doi.org/10.1109/LSP.2015.2437456>

Iosifidis, Alexandros, Anastasios Tefas ja Ioannis Pitas. "Sparse extreme learning machine classifier exploiting intrinsic graphs". *Pattern Recognition Letters*. 2015, 65. 192-196. <https://doi.org/10.1016/j.patrec.2015.07.036>

Irofti, Paul ja Bogdan Dumitrescu "Cosparsity dictionary learning for the orthogonal case". *2015 19th International Conference on System Theory, Control and Computing, ICSTCC 2015 - Joint Conference SINTES 19, SACCS 15, SIMSIS 19*. IEEE. 2015, 343-347. <https://doi.org/10.1109/ICSTCC.2015.7321317>

Diaz, Isael et al. "A New Approach to Sign-Bit-Based Parameter Estimation in OFDM Receivers". *Circuits, Systems and Signal Processing*. 2015, 34(11). 3631-3660. <https://doi.org/10.1007/s00034-015-0025-5>

Martino, L. et al. "A fast universal self-tuned sampler within Gibbs sampling". *Digital Signal Processing*. 2015, 47. 68-83. <https://doi.org/10.1016/j.dsp.2015.04.005>

Raitoharju, Matti, Henri Nurminen, ja Robert Piché. "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. 2015(1). <https://doi.org/10.1186/s13634-015-0216-z>

Raitoharju, Matti, Simo Ali-Löytty, ja Robert Piché. "Binomial Gaussian mixture filter". *Eurasip Journal on Advances in Signal Processing*. 2015. 2015(1). <https://doi.org/10.1186/s13634-015-0221-2>

Boutellier, J. ja T. Nyländen "Programming graphics processing units in the RVC-CAL dataflow language". *Electronic Proceedings of the 2015 IEEE International Workshop on Signal Processing Systems, SiPS 2015*. Institute of Electrical and Electronics Engineers Inc. 2015. <https://doi.org/10.1109/SiPS.2015.7344994>

Acimovic, Jugoslava, Tuomo Mikael Mäki-Marttunen, ja Marja-Leena Linne "Whole-cell morphological properties of neurons constrain the nonrandom features of network connectivity". ja Cymbalyuk, Gennady Burkitt, Anthony (toimittaneet). *24th Annual Computational Neuroscience Meeting: CNS\*2015*. Luku Volume 16 (Suppl 1), Prague: BioMed Central. 2015, P:O7.

Riabchenko, Ekaterina ja Joni-Kristian Kämäräinen. "Generative part-based Gabor object detector". *Pattern Recognition Letters*. 2015, 68(P1). 1-8. <https://doi.org/10.1016/j.patrec.2015.08.004>

Dai, Cui-Qin, Fu-Jia Li ja Markku Renfors. "Energy cooperation for throughput optimization based on save-then-transmit protocol in wireless communication system". *Eurasip Journal on Wireless Communications and Networking*. 2015. 2015(1). <https://doi.org/10.1186/s13638-015-0364-8>

Larjo, Antti ja Harri Lähdesmäki. "Using multi-step proposal distribution for improved MCMC convergence in Bayesian network structure learning". *Eurasip Journal on Bioinformatics and Systems Biology*. 2015. 2015(1). <https://doi.org/10.1186/s13637-015-0024-7>



Sarjanoja, Sampsa, Jani Boutellier ja Jari Hannuksela "BM3D image denoising using heterogeneous computing platforms". *DASIP 2015 - Proceedings of the 2015 Conference on Design and Architectures for Signal and Image Processing*. IEEE COMPUTER SOCIETY PRESS. 2015. <https://doi.org/10.1109/DASIP.2015.7367257>

Davidson, P., J. P. Raunio, ja R. Piché "Accurate depth estimation from a sequence of monocular images supported by proprioceptive sensors". *23rd Saint Petersburg International Conference on Integrated Navigation Systems, ICINS 2016 - Proceedings*. State Research Center of the Russian Federation. 2016, 249-257.

Davidson, P. ja I. Merkulova "Computer vision aided navigation systems". *23rd Saint Petersburg International Conference on Integrated Navigation Systems, ICINS 2016 - Proceedings*. State Research Center of the Russian Federation. 2016, 560-562.

Mehta, Rakesh ja Karen Egiazarian. "Dominant Rotated Local Binary Patterns (DRLBP) for texture classification". *Pattern Recognition Letters*. 2016, 71. 16-22. <https://doi.org/10.1016/j.patrec.2015.11.019>

Rubel, Oleksii et al. "Efficiency of texture image filtering and its prediction". *Signal, Image and Video Processing*. 2016, 10(8). 1543-1550. <https://doi.org/10.1007/s11760-016-0969-3>

Aghababaeetafreshi, Mona et al. "IEEE 802.11ac MIMO Transceiver Baseband Processing on a VLIW Processor". *Journal of Signal Processing Systems*. 2016. <https://doi.org/10.1007/s11265-015-1032-2>

Chukhman, Ilya et al. "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>

Piché, Robert. "Online tests of Kalman filter consistency". *International Journal of Adaptive Control and Signal Processing*. 2016, 30(1). 115-124. <https://doi.org/10.1002/acs.2571>

Multanen, Joonas et al. "OpenCL Programmable Exposed Datapath High Performance Low-Power Image Signal Processor". *2016 IEEE Nordic Circuits and Systems Conference (NORCAS)*. IEEE. 2016. <https://doi.org/10.1109/NORCHIP.2016.7792906>

Zemliachenko, Alexander et al. "Still image/video frame lossy compression providing a desired visual quality". *Multidimensional Systems and Signal Processing*. 2016, 27(3). 697-718. <https://doi.org/10.1007/s11045-015-0333-8>

Borges, Lucas, Marcelo Vieira, ja Alessandro Foi. "Unbiased Injection of Signal-Dependent Noise in Variance-Stabilized Range". *IEEE Signal Processing Letters*. 2016, 23(10). 1494-1498. <https://doi.org/10.1109/LSP.2016.2601689>

Mahlamäki, Katrine et al. "Importance of maintenance data quality in extended warranty simulation". *International Journal of COMADEM*. 2016, 19(1). 3-10.

Balasubramaniam, Sasitharan et al. "Guest editorial special issue on the internet of nano things". *IEEE Internet of Things Journal*. 2016, 3(1). 1-3. <https://doi.org/10.1109/JIOT.2016.2516838>

Balandina, Ekaterina et al. "Innovative e-Tourism Services on Top of Geo2Tag LBS Platform". *Proceedings - 11th International Conference on Signal-Image Technology and Internet-Based Systems, SITIS 2015*. IEEE. 2016, 752-759. <https://doi.org/10.1109/SITIS.2015.11>

Allen, Markus et al. "Digital full-band linearization of wideband direct-conversion receiver for radar and communications applications". *2015 49th Asilomar Conference on Signals, Systems and Computers*. IEEE COMPUTER SOCIETY PRESS. 2016, 1361-1368. <https://doi.org/10.1109/ACSSC.2015.7421365>

Habib, Muhammad et al. "Random Value Impulse Noise Removal Based on Most Similar Neighbors". *2015 13th International Conference on Frontiers of Information Technology (FIT)*. IEEE. 2016, 329-333. <https://doi.org/10.1109/FIT.2015.64>

Vaz, Pedro et al. "Which wavelength is the best for arterial pulse waveform extraction using laser speckle imaging?". *Biomedical Signal Processing and Control*. 2016, 25. 188-195. <https://doi.org/10.1016/j.bspc.2015.11.013>

Park, Youngsun et al. "BL-LDA: Bringing bigram to supervised topic model". *Proceedings - 2015 International Conference on Computational Science and Computational Intelligence, CSCI 2015*. Institute of Electrical and Electronics Engineers Inc. 2016, 83-88. <https://doi.org/10.1109/CSCI.2015.146>

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

Lehtomäki, Janne J., A. Ozan Bicen ja Ian F. Akyildiz. "Statistical analysis of interference for nanoscale electromechanical wireless communication at VHF-band". *IEEE Transactions on Signal Processing*. 2016, 64(8). 2040-2050. <https://doi.org/10.1109/TSP.2015.2512526>

Mäkitalo, Niko, Timo Aaltonen ja Tommi Mikkonen "Coordinating proactive social devices in a mobile cloud: Lessons learned and a way forward". *MOBILESoft '16 Proceedings of the International Conference on Mobile Software Engineering and Systems*. ACM. 2016, 179-188. <https://doi.org/10.1145/2897073.2897079>

Kim, Scott C. ja Shuvra S. Bhattacharyya. "A Wideband Front-End Receiver Implementation on GPUs". *IEEE Transactions on Signal Processing*. 2016, 64(10). 2602-2612. <https://doi.org/10.1109/TSP.2016.2535349>

Daniel, Ondrej et al. "Blind sub-Nyquist GNSS signal detection". *2016 IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP)*. IEEE. 2016, 6575-6579. <https://doi.org/10.1109/ICASSP.2016.7472944>

Sarbu, Septimia "On Renyi's entropy estimation with one-dimensional Gaussian kernels". *2016 IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP)*. IEEE. 2016, 4408-4412. <https://doi.org/10.1109/ICASSP.2016.7472510>

Iosifidis, Alexandros ja Moncef Gabbouj "Supervised subspace learning based on deep randomized networks". *2016 IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP)*. The Institute of Electrical and Electronics Engineers, Inc. 2016, 2584-2588. <https://doi.org/10.1109/ICASSP.2016.7472144>

Mehta, Rakesh ja Karen Egiazarian. "Rotation Invariant Texture Description Using Symmetric Dense Microblock Difference". *IEEE Signal Processing Letters*. 2016, 23(6). 833-837. <https://doi.org/10.1109/LSP.2016.2561311>

Patrona, Foteini et al. "Visual Voice Activity Detection in the Wild". *IEEE Transactions on Multimedia*. 2016, 18(6). 967-977. <https://doi.org/10.1109/TMM.2016.2535357>

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

Azzari, Lucio ja Alessandro Foi. "Variance Stabilization for Noisy+Estimate Combination in Iterative Poisson Denoising". *IEEE Signal Processing Letters*. 2016, 23(8). 1086-1090. <https://doi.org/10.1109/LSP.2016.2580600>

Razavi, Alireza, Mikko Valkama ja Danijela Cabric. "Compressive Detection of Random Subspace Signals". *IEEE Transactions on Signal Processing*. 2016, 64(16). 4166-4179. <https://doi.org/10.1109/TSP.2016.2560132>

Tanskanen, Jarno M.A. et al. "Automatic objective thresholding to detect neuronal action potentials". *Proceedings of 2016 24th European Signal Processing Conference (EUSIPCO)*. 2016, 662-666. <https://doi.org/10.1109/EUSIPCO.2016.7760331>

- Iosifidis, Alexandros ja Moncef Gabbouj. "Nyström-based approximate kernel subspace learning". *Pattern Recognition*. 2016, 190-197. <https://doi.org/10.1016/j.patcog.2016.03.018>
- Rasku, Jyrki et al. "A software tool for studying the size and shape of human cardiomyocytes". *Biomedical Signal Processing and Control*. 2016, 30. 134-139. <https://doi.org/10.1016/j.bspc.2016.06.011>
- Zhu, Shuyuan et al. "Image interpolation based on non-local geometric similarities and directional gradients". *IEEE Transactions on Multimedia*. 2016, 18(9). 1707-1719. <https://doi.org/10.1109/TMM.2016.2593039>
- Hirvola, Ossi et al. "Improved image quality in fast inpainting with omnidirectional filling". *International Conference on Image, Vision and Computing (ICIVC)*. IEEE. 2016, 31-35. <https://doi.org/10.1109/ICIVC.2016.7571269>
- Nanni, Loris et al. "Ensembles of dense and dense sampling descriptors for the HEp-2 cells classification problem". *Pattern Recognition Letters*. 2016, 82. 28-35. <https://doi.org/10.1016/j.patrec.2016.01.026>
- Ben Salem, Haifa et al. "Adaptive tracking of people and vehicles using mobile platforms". *Eurasip Journal on Advances in Signal Processing*. 2016. 2016(1). <https://doi.org/10.1186/s13634-016-0356-9>
- Barker, Tom ja Tuomas Virtanen. "Blind Separation of Audio Mixtures Through Nonnegative Tensor Factorization of Modulation Spectrograms". *Ieee-Acm transactions on audio speech and language processing*. 2016, 24(12). 2377-2389. <https://doi.org/10.1109/TASLP.2016.2602546>
- Pearson, Ronald K. et al. "Generalized Hampel Filters". *Eurasip Journal on Advances in Signal Processing*. 2016. 2016(1). <https://doi.org/10.1186/s13634-016-0383-6>
- Pelcat, Maxime et al. "Models of architecture: Reproducible efficiency evaluation for signal processing systems". *IEEE International Workshop on Signal Processing Systems, SiPS 2016*. IEEE International Workshop on Signal Processing Systems. IEEE. 2016, 121-126. <https://doi.org/10.1109/SiPS.2016.29>
- Blattner, Timothy et al. "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>
- Barford, Lee, Shuvra S. Bhattacharyya ja Yanzhou Liu. "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>
- Komar, M. S. "Data Rate Assessment on L2-L3 CPU Bus and Bus between CPU and RAM in Modern CPUs". *Automatic Control and Computer Sciences*. 2017, 51(7). 701-708. <https://doi.org/10.3103/S014641161707029X>
- Boutellier, J. ja T. Nyländen. "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>
- Kim, Scott C. ja Shuvra S. Bhattacharyya. "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>
- Helin, Petri et al. "Minimum description length sparse modeling and region merging for lossless plenoptic image compression". *IEEE Journal on Selected Topics in Signal Processing*. 2017. 11(7). <https://doi.org/10.1109/JSTSP.2017.2737967>
- Rusu, Corneliu ja Jaakko Astola. "On the existence of the solution for one-dimensional discrete phase retrieval problem". *Signal, Image and Video Processing*. 2017, 11(2). 195-202. <https://doi.org/10.1007/s11760-016-0919-0>

- Li, Kaipeng 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>
- Rui, Rafael et al. "State Estimation for a Class of Piecewise Affine State-Space Models". *IEEE Signal Processing Letters*. 2017, 24(1). 61-65. <https://doi.org/10.1109/LSP.2016.2633624>
- Murayama, Mizuki et al. "Color-distribution similarity by information theoretic divergence for color images". *2016 Asia-Pacific Signal and Information Processing Association Annual Summit and Conference, APSIPA 2016*. IEEE. 2017. <https://doi.org/10.1109/APSIPA.2016.7820681>
- Li, Lin et al. "Low power design methodology for signal processing systems using lightweight dataflow techniques". *DASIP 2016 - Proceedings of the 2016 Conference on Design and Architectures for Signal and Image Processing*. IEEE COMPUTER SOCIETY PRESS. 2017, 82-89. <https://doi.org/10.1109/DASIP.2016.7853801>
- Korpi, Dani et al. "Advanced architectures for self-interference cancellation in full-duplex radios: Algorithms and measurements". *2016 50th Asilomar Conference on Signals, Systems and Computers*. IEEE. 2017, 1553-1557. <https://doi.org/10.1109/ACSSC.2016.7869639>
- González-Díaz, Iván et al. "Neighborhood Matching for Image Retrieval". *IEEE Transactions on Multimedia*. 2017, 19(3). 544-558. <https://doi.org/10.1109/TMM.2016.2616298>
- Katkovnik, Vladimir ja Karen Egiazarian. "Sparse phase imaging based on complex domain nonlocal BM3D techniques". *Digital Signal Processing*. 2017, 63. 72-85. <https://doi.org/10.1016/j.dsp.2017.01.002>
- Sapio, Adrian E., Marilyn Wolf ja Shuvra S. Bhattacharyya "Compact modeling and management of reconfiguration in digital channelizer implementation". *2016 IEEE Global Conference on Signal and Information Processing, GlobalSIP 2016 - Proceedings*. IEEE. 2017, 595-599. <https://doi.org/10.1109/GlobalSIP.2016.7905911>
- Zare, Alireza et al. "HEVC-compliant viewport-adaptive streaming of stereoscopic panoramic video". *2016 Picture Coding Symposium, PCS 2016*. IEEE. 2017. <https://doi.org/10.1109/PCS.2016.7906401>
- Kara, Peter A. et al. "The Effect of Light Field Reconstruction and Angular Resolution Reduction on the Quality of Experience". *2016 12th International Conference on Signal-Image Technology & Internet-Based Systems (SITIS)*. IEEE. 2017, 781-786. <https://doi.org/10.1109/SITIS.2016.128>
- Dos Santos, Rochelle Schneider et al. "The variation of air and surface temperatures in London within a 1km grid using vehicle-transect and ASTER data". *2017 Joint Urban Remote Sensing Event, JURSE 2017*. 2017 Joint Urban Remote Sensing Event, JURSE 2017. Institute of Electrical and Electronics Engineers Inc. 2017. <https://doi.org/10.1109/JURSE.2017.7924613>
- Hussain, Waqar et al. "Power Mitigation by Performance Equalization in a Heterogeneous Reconfigurable Multicore Architecture". *Journal of Signal Processing Systems*. 2017, 87(3). 287–297. <https://doi.org/10.1007/s11265-016-1142-5>
- Ellervee, Peeter ja Jari Nurmi. "Guest Editorial: Implementation Issues in System-on-Chip". *Journal of Signal Processing Systems*. 2017, 87(3). 269-270. <https://doi.org/10.1007/s11265-017-1242-x>
- Richard, G. et al. "Introduction to the Special Section on Sound Scene and Event Analysis". *IEEE/ACM Transactions on Audio Speech and Language Processing*. 2017, 25(6). 1169-1171. <https://doi.org/10.1109/TASLP.2017.2699334>
- Zhang, Honglei, Serkan Kiranyaz, ja Moncef Gabbouj "A k-nearest neighbor multilabel ranking algorithm with application to content-based image retrieval". *2017 IEEE International Conference on Acoustics, Speech, and Signal Processing, ICASSP 2017 - Proceedings*. IEEE. 2017, 2587-2591. <https://doi.org/10.1109/ICASSP.2017.7952624>

Lee, Kyunghun, Benjamin S. Riggan ja Shuvra S. Bhattacharyya "An accumulative fusion architecture for discriminating people and vehicles using acoustic and seismic signals". *2017 IEEE International Conference on Acoustics, Speech, and Signal Processing, ICASSP 2017 - Proceedings*. IEEE. 2017, 2976-2980. <https://doi.org/10.1109/ICASSP.2017.7952702>

Korpi, Dani, Taneli Riihonen, ja Mikko Valkama "Inband full-duplex radio access system with self-backhauling: Transmit power minimization under QOS requirements". *2017 IEEE International Conference on Acoustics, Speech, and Signal Processing, ICASSP 2017 - Proceedings*. IEEE. 2017, 6558-6562. <https://doi.org/10.1109/ICASSP.2017.7953420>

Abdelaziz, Mahmoud, Lauri Anttila, ja Mikko Valkama "Reduced-complexity digital predistortion for massive MIMO". *2017 IEEE International Conference on Acoustics, Speech, and Signal Processing, ICASSP 2017 - Proceedings*. IEEE. 2017, 6478-6482. <https://doi.org/10.1109/ICASSP.2017.7953404>

Sheikh, Muhammad Usman ja Jukka Lempiäinen "Analysis of multipath propagation for 5G system at higher frequencies in microcellular environment". *2017 13th International Wireless Communications and Mobile Computing Conference, IWCMC 2017*. IEEE. 2017, 1660-1664. <https://doi.org/10.1109/IWCMC.2017.7986533>

Sheikh, Muhammad Usman, Kimmo Hiltunen, ja Jukka Lempiäinen "Angular wall loss model and Extended Building Penetration model for outdoor to indoor propagation". *2017 13th International Wireless Communications and Mobile Computing Conference, IWCMC 2017*. IEEE. 2017, 1291-1296. <https://doi.org/10.1109/IWCMC.2017.7986471>

Drgas, Szymon et al. "Binary Non-Negative Matrix Deconvolution for Audio Dictionary Learning". *IEEE/ACM Transactions on Audio Speech and Language Processing*. 2017, 25(8). 1644-1656. <https://doi.org/10.1109/TASLP.2017.2709909>

Rusu, Corneliu ja Jaakko Astola "Convergence analysis of error-reduction algorithm for solving of the extended one-dimensional discrete phase retrieval problem". *ISSCS 2017 - International Symposium on Signals, Circuits and Systems*. IEEE. 2017. <https://doi.org/10.1109/ISSCS.2017.8034945>

Astola, Pekka ja Ioan Tabus "Lossless compression of high resolution disparity map images". *ISSCS 2017 - International Symposium on Signals, Circuits and Systems*. IEEE. 2017. <https://doi.org/10.1109/ISSCS.2017.8034934>

Carrera, Diego et al. "Sparse Overcomplete Denoising: Aggregation Versus Global Optimization". *IEEE Signal Processing Letters*. 2017, 24(10). 1468-1472. <https://doi.org/10.1109/LSP.2017.2734119>

Ito, Izumi ja Karen Egiazarian "Full search equivalent fast block matching using orthonormal tree-structured haar transform". *ISPA 2017 - 10th International Symposium on Image and Signal Processing and Analysis*. IEEE COMPUTER SOCIETY PRESS. 2017, 177-182. <https://doi.org/10.1109/ISPA.2017.8073591>

Lee, Kyunghun, Benjamin S. Riggan ja Shuvra S. Bhattacharyya "An optimized embedded target detection system using acoustic and seismic sensors". *25th European Signal Processing Conference, EUSIPCO 2017*. IEEE. 2017, 986-990. <https://doi.org/10.23919/EUSIPCO.2017.8081355>

Iosifidis, Alexandros et al. "Big Media Data Analysis". *Signal Processing: Image Communication*. 2017, 59. 105-108. <https://doi.org/10.1016/j.image.2017.10.004>

Wu, Jiahao et al. "Model-based dynamic scheduling for multicore implementation of image processing systems". *2017 IEEE International Workshop on Signal Processing Systems, SiPS 2017*. IEEE. 2017. <https://doi.org/10.1109/SiPS.2017.8110003>

Thanh Tran, Dat, Moncef Gabbouj ja Alexandros Iosifidis. "Multilinear class-specific discriminant analysis". *Pattern Recognition Letters*. 2017, 100. 131-136. <https://doi.org/10.1016/j.patrec.2017.10.027>

Katkovnik, Vladimir, Mykola Ponomarenko, ja Karen Egiazarian. "Sparse approximations in complex domain based on BM3D modeling". *Signal Processing*. 2017, 141. 96-108. <https://doi.org/10.1016/j.sigpro.2017.05.032>

Raitoharju, Matti et al. "Damped Posterior Linearization Filter". *IEEE Signal Processing Letters*. 2018. 25(4). <https://doi.org/10.1109/LSP.2018.2806304>

Raeesi, Orod, Ahmet Gokceoglu, ja Mikko Valkama. "Estimation and Mitigation of Channel Non-Reciprocity in Massive MIMO". *IEEE Transactions on Signal Processing*. 2018. 66(10). <https://doi.org/10.1109/TSP.2018.2814992>

Wu, Jiahao et al. "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>

Azzari, Lucio, Lucas Rodrigues Borges, ja Alessandro Foi "Modeling and estimation of signal-dependent and correlated noise". *Denosing of Photographic Images and Video: Fundamentals, Open Challenges and New Trends*. Advances in Computer Vision and Pattern Recognition. SPRINGER-VERLAG LONDON LTD. 2018, 1-36. [https://doi.org/10.1007/978-3-319-96029-6\\_1](https://doi.org/10.1007/978-3-319-96029-6_1)

Yuan, Jirui et al. "Multi-view predictive latent space learning". *Pattern Recognition Letters*. 2018. <https://doi.org/10.1016/j.patrec.2018.06.022>

Aytekin, Caglar, Alexandros Iosifidis, ja Moncef Gabbouj. "Probabilistic saliency estimation". *Pattern Recognition*. 2018, 74. 359-372. <https://doi.org/10.1016/j.patcog.2017.09.023>

Nikunen, Joonas, Aleksandr Diment, ja Tuomas Virtanen. "Separation of Moving Sound Sources Using Multichannel NMF and Acoustic Tracking". *IEEE/ACM Transactions on Audio Speech and Language Processing*. 2018, 26(2). 281-295. <https://doi.org/10.1109/TASLP.2017.2774925>

Mesaros, Annamaria et al. "Detection and Classification of Acoustic Scenes and Events: Outcome of the DCASE 2016 Challenge". *IEEE/ACM Transactions on Audio Speech and Language Processing*. 2018, 26(2). 379-393. <https://doi.org/10.1109/TASLP.2017.2778423>

Curcio, Igor D.D., Henri Toukoma ja Deepa Naik "360-Degree video streaming and its subjective quality". *SMPTE 2017 Annual Technical Conference and Exhibition, SMPTE 2017*. SMPTE. 2018, 1-23. <https://doi.org/10.5594/M001758>

Aytekin, Caglar, Jarno Nikkanen, ja Moncef Gabbouj "Deep multiresolution color constancy". *2017 IEEE International Conference on Image Processing, ICIP 2017 - Proceedings*. IEEE COMPUTER SOCIETY PRESS. 2018, 3735-3739. <https://doi.org/10.1109/ICIP.2017.8296980>

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

Tran, Dat Thanh et al. "Sample-based regularization for support vector machine classification". *Proceedings of the 7th International Conference on Image Processing Theory, Tools and Applications, IPTA 2017*. IEEE. 2018, 1-6. <https://doi.org/10.1109/IPTA.2017.8310103>

Schiopu, Ionut et al. "Subaperture image segmentation for lossless compression". *Proceedings of the 7th International Conference on Image Processing Theory, Tools and Applications, IPTA 2017*. IEEE. 2018, 1-6. <https://doi.org/10.1109/IPTA.2017.8310083>

Daniel, Ondrej, Henk Wymeersch, ja Jari Nurmi. "Delay-Accuracy Trade-off in Opportunistic Time-of-Arrival Localization". *IEEE Signal Processing Letters*. 2018, 25(6). 763-767. <https://doi.org/10.1109/LSP.2018.2826470>

- Abdelaziz, Mahmoud et al. "Digital Predistortion for Hybrid MIMO Transmitters". *IEEE Journal on Selected Topics in Signal Processing*. 2018, 12(3). 445-454. <https://doi.org/10.1109/JSTSP.2018.2824981>
- Phan, Duy ja Sérgio S. Rodrigues. "Stabilization to trajectories for parabolic equations". *Mathematics of Control, Signals, and Systems*. 2018. 30(2). <https://doi.org/10.1007/s00498-018-0218-0>
- Riihonen, Taneli et al. "Full-duplex radio technology for simultaneously detecting and preventing improvised explosive device activation". *2018 International Conference on Military Communications and Information Systems, ICMCIS 2018*. IEEE. 2018, 1-4. <https://doi.org/10.1109/ICMCIS.2018.8398707>
- Henno, J., H. Jaakkola ja J. Makela "Adjusting university education with workspace training and self-education". *2018 41st International Convention on Information and Communication Technology, Electronics and Microelectronics, MIPRO 2018*. IEEE. 2018, 701-708. <https://doi.org/10.23919/MIPRO.2018.8400131>
- Jaakkola, H. et al. "Role of the user in information systems development". *2018 41st International Convention on Information and Communication Technology, Electronics and Microelectronics, MIPRO 2018*. IEEE. 2018, 625-632. <https://doi.org/10.23919/MIPRO.2018.8400118>
- Tejero-de-Pablos, Antonio et al. "Summarization of User-Generated Sports Video by Using Deep Action Recognition Features". *IEEE Transactions on Multimedia*. 2018, 20(8). 2000-2011. <https://doi.org/10.1109/TMM.2018.2794265>
- Cruz, Cristovao et al. "Nonlocality-Reinforced Convolutional Neural Networks for Image Denoising". *IEEE Signal Processing Letters*. 2018, 25(8). 1216-1220. <https://doi.org/10.1109/LSP.2018.2850222>
- Pihlajasalo, Jaakko et al. "Improvement of GPS and BeiDou extended orbit predictions with CNNs". *26th European Navigation Conference, ENC 2018: Gothenburg, Sweden, 14-17 May, 2018*. IEEE. 2018, 54-59. <https://doi.org/10.1109/EURONAV.2018.8433244>
- Zhang, Honglei, Serkan Kiranyaz, ja Moncef Gabbouj "Data Clustering Based on Community Structure in Mutual k-Nearest Neighbor Graph". *2018 41st International Conference on Telecommunications and Signal Processing, TSP 2018*. IEEE. 2018, 262-268. <https://doi.org/10.1109/TSP.2018.8441226>
- Khosravi, Zeinab et al. "Performance Evaluation of UAV-Assisted mmWave Operation in Mobility-Enabled Urban Deployments". *2018 41st International Conference on Telecommunications and Signal Processing, TSP 2018*. IEEE. 2018, 150-153. <https://doi.org/10.1109/TSP.2018.8441321>
- Eslahi, Nasser ja Alessandro Foi "Anisotropic Spatiotemporal Regularization in Compressive Video Recovery by Adaptively Modeling the Residual Errors as Correlated Noise". *2018 IEEE 13th Image, Video, and Multidimensional Signal Processing Workshop, IVMSP 2018 - Proceedings*. IEEE. 2018. <https://doi.org/10.1109/IVMSPW.2018.8448455>
- Carabias-Orti, J. J. et al. "Multi-source localization using a DOA Kernel based spatial covariance model and complex nonnegative matrix factorization". *2018 IEEE 10th Sensor Array and Multichannel Signal Processing Workshop, SAM 2018*. Proceedings of the IEEE Sensor Array and Multichannel Signal Processing Workshop. IEEE. 2018, 440-444. <https://doi.org/10.1109/SAM.2018.8448664>
- Schwarz, Sebastian et al. "2D Video Coding of Volumetric Video Data". *2018 Picture Coding Symposium, PCS 2018 - Proceedings*. IEEE. 2018, 61-65. <https://doi.org/10.1109/PCS.2018.8456265>
- Solin, Arno et al. "Inertial Odometry on Handheld Smartphones". *2018 21st International Conference on Information Fusion, FUSION 2018*. IEEE. 2018, 1361-1368. <https://doi.org/10.23919/ICIF.2018.8455482>

Rastorgueva-Foi, Elizaveta et al. "User Positioning in mmW 5G Networks Using Beam-RSRP Measurements and Kalman Filtering". *2018 21st International Conference on Information Fusion, FUSION 2018*. IEEE. 2018, 1150-1156. <https://doi.org/10.23919/ICIF.2018.8455289>

Lee, Kyunghun, Benjamin S. Riggan ja Shuvra S. Bhattacharyya "A joint target localization and classification framework for sensor networks". *2018 IEEE International Conference on Acoustics, Speech, and Signal Processing, ICASSP 2018 - Proceedings*. Institute of Electrical and Electronics Engineers Inc. 2018, 3076-3080. <https://doi.org/10.1109/ICASSP.2018.8462641>

Nikunen, Joonas ja Tuomas Virtanen "Estimation of time-varying room impulse responses of multiple sound sources from observed mixture and isolated source signals". *2018 IEEE International Conference on Acoustics, Speech, and Signal Processing, ICASSP 2018 - Proceedings*. Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing. Institute of Electrical and Electronics Engineers Inc. 2018, 421-425. <https://doi.org/10.1109/ICASSP.2018.8462535>

Malik, Junaid, Caglar Aytakin, ja Moncef Gabbouj "Low-energy graph fourier basis functions span salient objects". *2018 IEEE International Conference on Acoustics, Speech, and Signal Processing, ICASSP 2018 - Proceedings*. Institute of Electrical and Electronics Engineers Inc. 2018, 1548-1552. <https://doi.org/10.1109/ICASSP.2018.8462672>

Egiazarian, Karen et al. "Statistical Evaluation of Visual Quality Metrics for Image Denoising". *2018 IEEE International Conference on Acoustics, Speech, and Signal Processing, ICASSP 2018 - Proceedings*. Institute of Electrical and Electronics Engineers Inc. 2018, 6752-6756. <https://doi.org/10.1109/ICASSP.2018.8462294>

Acimovic, Jugoslava et al. *Data-driven study of synchronous population activity in generic spiking neuronal networks: How much do we capture using the minimal model for the considered phenomena?*. 2018.

Ma, Huadong et al. "Guest Editorial Special Issue on Multimedia Big Data in Internet of Things". *IEEE Internet of Things Journal*. 2018, 5(5). 3405-3407. <https://doi.org/10.1109/JIOT.2018.2875580>

Multanen, Joonas et al. "LoTTA: Energy-Efficient Processor for Always-on Applications". *2018 IEEE International Workshop on Signal Processing Systems (SiPS)*. IEEE. 2018. <https://doi.org/10.1109/SiPS.2018.8598408>

Raitoharju, Jenni et al. "Benchmark database for fine-grained image classification of benthic macroinvertebrates". *Image and Vision Computing*. 2018, 78. 73-83. <https://doi.org/10.1016/j.imavis.2018.06.005>

Tripathy, Soumya Ranjan, Kingshuk Chakravarty ja Aniruddha Sinha "Eigen Posture Based Fall Risk Assessment System Using Kinect". *40th Annual International Conference of the IEEE Engineering in Medicine and Biology Society, EMBC 2018*. IEEE. 2018, 1-4. <https://doi.org/10.1109/EMBC.2018.8513263>

Mehrang, Saeed et al. "Identification of Parkinson's Disease Utilizing a Single Self-recorded 20-step Walking Test Acquired by Smartphone's Inertial Measurement Unit". *40th Annual International Conference of the IEEE Engineering in Medicine and Biology Society, EMBC 2018*. Institute of Electrical and Electronics Engineers Inc. 2018, 2913-2916. <https://doi.org/10.1109/EMBC.2018.8512921>

Tarniceriu, Adrian et al. "The Accuracy of Atrial Fibrillation Detection from Wrist Photoplethysmography. A Study on Post-Operative Patients". *40th Annual International Conference of the IEEE Engineering in Medicine and Biology Society, EMBC 2018*. IEEE. 2018, 4844-4847. <https://doi.org/10.1109/EMBC.2018.8513197>

Acimovic, Jugoslava et al. "Data-driven study of synchronous population activity in generic spiking neuronal networks: How much do we capture using the minimal model for the considered phenomena?". *BMC Neuroscience*. 2018, 19(Suppl 2). 68-69.

Niemi, Juha ja Juha Tanttu. "Deep Learning Case Study for Automatic Bird Identification". *Applied Sciences (Switzerland)*. 2018. 8(11). <https://doi.org/10.3390/app8112089>



- Nurminen, Henri et al. "Skew-t Filter and Smoother with Improved Covariance Matrix Approximation". *IEEE Transactions on Signal Processing*. 2018, 66(21). 5618-5633. <https://doi.org/10.1109/TSP.2018.2865434>
- Hautala, Ilkka et al. "Toward Efficient Execution of RVC-CAL Dataflow Programs on Multicore Platforms". *Journal of Signal Processing Systems*. 2018, 90(11). 1507-1517. <https://doi.org/10.1007/s11265-018-1339-x>
- Mesaros, Annamaria, Toni Heittola, ja Tuomas Virtanen "Acoustic scene classification: An overview of dcase 2017 challenge entries". *16th International Workshop on Acoustic Signal Enhancement, IWAENC 2018*. IEEE. 2018, 411-415. <https://doi.org/10.1109/IWAENC.2018.8521242>
- Shuyang, Zhao, Toni Heittola, ja Tuomas Virtanen "An active learning method using clustering and committee-based sample selection for sound event classification". *16th International Workshop on Acoustic Signal Enhancement, IWAENC 2018*. IEEE. 2018, 116-120. <https://doi.org/10.1109/IWAENC.2018.8521336>
- Naithani, Gaurav et al. "Deep neural network based speech separation optimizing an objective estimator of intelligibility for low latency applications". *16th International Workshop on Acoustic Signal Enhancement, IWAENC 2018*. IEEE. 2018, 386-390. <https://doi.org/10.1109/IWAENC.2018.8521379>
- Nikunen, Joonas ja Archontis Politis "Multichannel NMF for source separation with ambisonic signals". *16th International Workshop on Acoustic Signal Enhancement, IWAENC 2018*. IEEE. 2018, 251-255. <https://doi.org/10.1109/IWAENC.2018.8521344>
- Parviainen, Mikko et al. "Time-frequency masking strategies for single-channel low-latency speech enhancement using neural networks". *16th International Workshop on Acoustic Signal Enhancement, IWAENC 2018*. IEEE. 2018, 51-55. <https://doi.org/10.1109/IWAENC.2018.8521400>
- Huang, Guangpu, Toni Heittola, ja Tuomas Virtanen "Using sequential information in polyphonic sound event detection". *16th International Workshop on Acoustic Signal Enhancement, IWAENC 2018*. IEEE. 2018, 291-295. <https://doi.org/10.1109/IWAENC.2018.8521367>
- Mahkonen, Katariina, Tuomas Virtanen, ja Joni Kämäräinen. "Cascade of Boolean detector combinations". *Eurasip Journal on Image and Video Processing*. 2018. 2018. <https://doi.org/10.1186/s13640-018-0303-9>
- Sapio, Adrian, Shuvra S. Bhattacharyya ja Marilyn Wolf "Efficient Solving of Markov Decision Processes on GPUs Using Parallelized Sparse Matrices". *2018 Conference on Design and Architectures for Signal and Image Processing, DASIP 2018*. Conference on Design and Architectures for Signal and Image Processing, DASIP. IEEE COMPUTER SOCIETY PRESS. 2018, 13-18. <https://doi.org/10.1109/DASIP.2018.8596969>
- Pascual Campo, Pablo et al. "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>
- Meirhaeghe, Alexandre, Jani Boutellier ja Jussi Collin "The Direction Cosine Matrix Algorithm in Fixed-point: Implementation and Analysis". *ICASSP 2019 - 2019 IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP)*. IEEE. 2019. <https://doi.org/10.1109/ICASSP.2019.8683644>
- Schwarz, Sebastian et al. "Video coding of dynamic 3D point cloud data". *APSIPA Transactions on Signal and Information Processing*. 2019. <https://doi.org/10.1017/ATSIP.2019.24>
- Al-Ars, Zaid et al. "ALMARVI System Solution for Image and Video Processing in Healthcare, Surveillance and Mobile Applications". *Journal of Signal Processing Systems*. 2019, 91(1). 1-7. <https://doi.org/10.1007/s11265-018-1423-2>

- Yoo, Seong Ki et al. "Energy Detection-Based Spectrum Sensing over Fisher-Snedecor F Fading Channels". *2018 IEEE Global Communications Conference*. IEEE. 2019. <https://doi.org/10.1109/GLOCOM.2018.8647778>
- Kovalchukov, Roman et al. "Improved Session Continuity in 5G NR with Joint Use of Multi-Connectivity and Guard Bandwidth". *2018 IEEE Global Communications Conference, GLOBECOM 2018*. IEEE. 2019. <https://doi.org/10.1109/GLOCOM.2018.8647608>
- Cai, Dingding et al. "Convolutional low-resolution fine-grained classification". *Pattern Recognition Letters*. 2019, 119. 166-171. <https://doi.org/10.1016/j.patrec.2017.10.020>
- Khan, Muhammad Adnan, Risto Vehmas, ja Ari Visa "Automatic detection of water inside concrete slabs using ground penetrating radar". *2019 IEEE Radar Conference, RadarConf 2019*. IEEE. 2019. <https://doi.org/10.1109/RADAR.2019.8835797>
- Petrov, Vitaly et al. "Exploiting Multipath Terahertz Communications for Physical Layer Security in beyond 5G Networks". *INFOCOM 2019 - IEEE Conference on Computer Communications Workshops, INFOCOM WKSHPS 2019*. IEEE. 2019, 865-872. <https://doi.org/10.1109/INFCOMW.2019.8845312>
- Kiranyaz, Serkan et al. "1-D Convolutional Neural Networks for Signal Processing Applications". *2019 IEEE International Conference on Acoustics, Speech, and Signal Processing, ICASSP 2019 - Proceedings*. IEEE. 2019, 8360-8364. <https://doi.org/10.1109/ICASSP.2019.8682194>
- Nogues, E. et al. "Convex Energy Optimization of Streaming Applications for MPSoCs". *2019 IEEE International Conference on Acoustics, Speech, and Signal Processing, ICASSP 2019 - Proceedings*. IEEE. 2019, 1557-1561. <https://doi.org/10.1109/ICASSP.2019.8682317>
- Purwins, Hendrik et al. "Deep Learning for Audio Signal Processing". *IEEE Journal on Selected Topics in Signal Processing*. 2019, 13(2). 206-219. <https://doi.org/10.1109/JSTSP.2019.2908700>
- Zarkias, Konstantinos Saitas et al. "Deep Reinforcement Learning for Financial Trading Using Price Trailing". *2019 IEEE International Conference on Acoustics, Speech, and Signal Processing, ICASSP 2019 - Proceedings*. IEEE. 2019, 3067-3071. <https://doi.org/10.1109/ICASSP.2019.8683161>
- Passalis, Nikolaos et al. "Deep Temporal Logistic Bag-of-features for Forecasting High Frequency Limit Order Book Time Series". *2019 IEEE International Conference on Acoustics, Speech, and Signal Processing, ICASSP 2019 - Proceedings*. IEEE. 2019, 7545-7549. <https://doi.org/10.1109/ICASSP.2019.8682297>
- Wang, Shanshan, Gaurav Naithani, ja Tuomas Virtanen "Low-latency Deep Clustering for Speech Separation". *2019 IEEE International Conference on Acoustics, Speech, and Signal Processing, ICASSP 2019 - Proceedings*. IEEE. 2019, 76-80. <https://doi.org/10.1109/ICASSP.2019.8683437>
- Pertuz, Said et al. "Open framework for mammography-based breast cancer risk assessment". *2019 IEEE EMBS International Conference on Biomedical and Health Informatics, BHI 2019 - Proceedings*. IEEE. 2019. <https://doi.org/10.1109/BHI.2019.8834599>
- Amestoy, Thomas et al. "Random Forest Oriented Fast QTBT Frame Partitioning". *2019 IEEE International Conference on Acoustics, Speech, and Signal Processing, ICASSP 2019 - Proceedings*. IEEE. 2019, 1837-1841. <https://doi.org/10.1109/ICASSP.2019.8683413>
- Pertilä, Pasi ja Mikko Parviainen "Time Difference of Arrival Estimation of Speech Signals Using Deep Neural Networks with Integrated Time-frequency Masking". *2019 IEEE International Conference on Acoustics, Speech, and Signal Processing, ICASSP 2019 - Proceedings*. IEEE. 2019, 436-440. <https://doi.org/10.1109/ICASSP.2019.8682574>

Passalis, Nikolaos et al. "Variance Preserving Initialization for Training Deep Neuromorphic Photonic Networks with Sinusoidal Activations". *2019 IEEE International Conference on Acoustics, Speech, and Signal Processing, ICASSP 2019 - Proceedings*. IEEE. 2019, 1483-1487. <https://doi.org/10.1109/ICASSP.2019.8682218>

Moltchanov, Dmitri et al. "Socially inspired relaying and proactive mode selection in mmWave vehicular communications". *IEEE Internet of Things Journal*. 2019, 6(3). 5172-5183. <https://doi.org/10.1109/JIOT.2019.2898420>

Masek, Pavel et al. "A perspective on wireless M-bus for smart electricity grids". Herencsar, Norbert (toim.). *2019 42nd International Conference on Telecommunications and Signal Processing, TSP 2019*. IEEE. 2019, 730-735. <https://doi.org/10.1109/TSP.2019.8768840>

Al-Sa'd, Mohammad F. ja Boualem Boashash. "Design and implementation of a multi-sensor newborn EEG seizure and background model with inter-channel field characterization". *Digital Signal Processing: A Review Journal*. 2019, 90. 71-99. <https://doi.org/10.1016/j.dsp.2019.02.003>

Rusu, Corneliu ja Jaakko Astola "Input magnitude data setting in error-reduction algorithm for one-dimensional discrete phase retrieval problem". *ISSCS 2019 - International Symposium on Signals, Circuits and Systems*. IEEE. 2019. <https://doi.org/10.1109/ISSCS.2019.8801743>

Mozny, Radek et al. "On the performance of narrow-band internet of things (NB-IoT) for delay-tolerant services". Herencsar, Norbert (toim.). *2019 42nd International Conference on Telecommunications and Signal Processing, TSP 2019*. 2019 42nd International Conference on Telecommunications and Signal Processing, TSP 2019. IEEE. 2019, 637-642. <https://doi.org/10.1109/TSP.2019.8768871>

Holm, Jukka, Kaisa Väänänen ja Mohammad Mushfiqur Rahman Remans "User Experience Study of 360° Music Videos on Computer Monitor and Virtual Reality Goggles"., Banissi, Ebad, Ursyn, Anna, McK. Bannatyne, Mark W., Datia, Nuno, Pires, Joao Moura, Francese, Rita, Sarfraz, Muhammad, Wyeld, Theodor G, Bouali, Fatma, Venturin, Gilles ja Azzag, Hanane Lebbah, Mustapha Trutschl, Marjan Cvek, Urska Muller, Heimo Nakayama, Minoru Kernbach, Sebastian Caruccio, Loredana Risi, Michele Erra, Ugo Vitiello, Autilia Rossano, Veronica (toimittaneet). *Information Visualization - Biomedical Visualization and Geometric Modelling and Imaging, IV 2019*. Proceedings of the International Conference on Information Visualisation. IEEE. 2019, 81-87. <https://doi.org/10.1109/IV.2019.00023>

Fu, Junsheng et al. "Performance analysis of single-query 6-DoF camera pose estimation in self-driving setups". *Computer Vision and Image Understanding*. 2019, 186. 58-73. <https://doi.org/10.1016/j.cviu.2019.04.009>

Rajput, Shailendra et al. "An approval of MPPT based on pv cell's simplified equivalent circuit during fast-shading conditions". *Electronics (Switzerland)*. 2019. 8(9). <https://doi.org/10.3390/electronics8091060>

Garcia-Molla, Victor M. et al. "Generalization of the K-SVD algorithm for minimization of  $\beta$ -divergence". *Digital Signal Processing: A Review Journal*. 2019, 92. 47-53. <https://doi.org/10.1016/j.dsp.2019.05.001>

Ferranti, Luca ja Jani Boutellier "Towards Algebraic Modeling of GPU Memory Access for Bank Conflict Mitigation". *2019 IEEE International Workshop on Signal Processing Systems, SiPS 2019*. IEEE. 2019, 103-108. <https://doi.org/10.1109/SiPS47522.2019.9020385>

Qian, Yanlin, Ke Chen ja Huanglin Yu "Fast fourier color constancy and grayness index for ISPA illumination estimation challenge"., Loncaric, Sven ja Bregovic, Robert Carli, Marco Subasic, Marko (toimittaneet). *ISPA 2019 - 11th International Symposium on Image and Signal Processing and Analysis*. International Symposium on Image and Signal Processing and Analysis, ISPA. IEEE. 2019, 352-354. <https://doi.org/10.1109/ISPA.2019.8868451>

Brihuega, Alberto et al. "Closed-Loop DPD for Digital MIMO Transmitters under Antenna Crosstalk". Matthews, Michael B. (toim.). *Conference Record - 53rd Asilomar Conference on Circuits, Systems and Computers, ACSSC 2019*. Conference Record - Asilomar Conference on Signals, Systems and Computers. IEEE Computer Society. 2019, 1682-1689. <https://doi.org/10.1109/IEEECONF44664.2019.9049001>

Petrov, Vitaly et al. "V2X Connectivity: From LTE to Joint Millimeter Wave Vehicular Communications and Radar Sensing". Matthews, Michael B. (toim.). *Conference Record - 53rd Asilomar Conference on Circuits, Systems and Computers, ACSSC 2019*. Conference Record - Asilomar Conference on Signals, Systems and Computers. IEEE Computer Society. 2019, 1120-1124. <https://doi.org/10.1109/IEEECONF44664.2019.9048846>

Hassan, Syeda Sakira et al. "Bayesian receiver operating characteristic metric for linear classifiers". *Pattern Recognition Letters*. 2019, 128. 52-59. <https://doi.org/10.1016/j.patrec.2019.07.016>

Heljakka, Katriina et al. "Gamified coding: Toy robots and playful learning in early education". *Proceedings - 6th Annual Conference on Computational Science and Computational Intelligence, CSCI 2019*. IEEE. 2019, 800-805. <https://doi.org/10.1109/CSCI49370.2019.00152>

Rostami, Soheil et al. "Optimized wake-up scheme with bounded delay for energy-efficient MTC". *2019 IEEE Global Communications Conference, GLOBECOM 2019 - Proceedings*. IEEE. 2019. <https://doi.org/10.1109/GLOBECOM38437.2019.9013534>

Gerasimenko, Mikhail et al. "Prototyping directional UAV-based wireless access and backhaul systems". *2019 IEEE Global Communications Conference, GLOBECOM 2019 - Proceedings*. IEEE. 2019. <https://doi.org/10.1109/GLOBECOM38437.2019.9014228>

Gapeyenko, Margarita et al. "Comparing capacity gains of static and UAV-based millimeter-wave relays in clustered deployments". *2020 IEEE International Conference on Communications Workshops, ICC Workshops 2020 - Proceedings*. IEEE/CIC international conference on communications in China - workshops. IEEE. 2020. <https://doi.org/10.1109/ICCWorkshops49005.2020.9145216>

Belyaev, Evgeny et al. "Compressive sensed video recovery via iterative thresholding with random transforms". *IET Image Processing*. 2020, 14(6). 1187-1200. <https://doi.org/10.1049/iet-ipr.2019.0661>

Nasarre, Ismael Peruga, Toni Levanen, ja Mikko Valkama "Constrained PSK: Energy-efficient modulation for Sub-THz systems". *2020 IEEE International Conference on Communications Workshops, ICC Workshops 2020 - Proceedings*. IEEE/CIC international conference on communications in China - workshops. IEEE. 2020. <https://doi.org/10.1109/ICCWorkshops49005.2020.9145132>

Brihuega, Alberto et al. "Digital Predistortion for Multiuser Hybrid MIMO at mmWaves". *IEEE Transactions on Signal Processing*. 2020, 68. 3603-3618. <https://doi.org/10.1109/TSP.2020.2995972>

Ilves, Mirja et al. "Functional electrical stimulation for facial pacing: Effects of waveforms on movement intensity and ratings of discomfort". *Biomedical Signal Processing and Control*. 2020. 60. <https://doi.org/10.1016/j.bspc.2020.101992>

Pirhonen, Mikko ja Antti Vehkaoja. "Fusion enhancement for tracking of respiratory rate through intrinsic mode functions in photoplethysmography". *Biomedical Signal Processing and Control*. 2020. 59. <https://doi.org/10.1016/j.bspc.2020.101887>

Sohrab, Fahad et al. "Multimodal subspace support vector data description". *Pattern Recognition*. 2020. 110. <https://doi.org/10.1016/j.patcog.2020.107648>

Magron, Paul ja Tuomas Virtanen. "Online Spectrogram Inversion for Low-Latency Audio Source Separation". *IEEE Signal Processing Letters*. 2020, 27. 306-310. <https://doi.org/10.1109/LSP.2020.2970310>

Genocchi, Barbara et al. "Parametric exploration of cellular swelling in a computational model of cortical spreading depression". *42nd Annual International Conferences of the IEEE Engineering in Medicine and Biology Society: Enabling Innovative Technologies for Global Healthcare, EMBC 2020*. Annual International Conference of the IEEE Engineering in Medicine and Biology Society. IEEE. 2020, 2491-2495. <https://doi.org/10.1109/EMBC44109.2020.9175306>

He, Han et al. "Passive RFID-based Textile Touchpad". *14th European Conference on Antennas and Propagation, EuCAP 2020*. IEEE. 2020. <https://doi.org/10.23919/EuCAP48036.2020.9135201>

Tafintsev, Nikita et al. "Reinforcement learning for improved UAV-based integrated access and backhaul operation". *2020 IEEE International Conference on Communications Workshops, ICC Workshops 2020 - Proceedings*. IEEE/CIC international conference on communications in China - workshops. IEEE. 2020. <https://doi.org/10.1109/ICCWorkshops49005.2020.9145423>

Gao, Yuan, Robert Bregovic, ja Atanas Gotchev. "Self-Supervised Light Field Reconstruction Using Shearlet Transform and Cycle Consistency". *IEEE Signal Processing Letters*. 2020, 27. 1425-1429. <https://doi.org/10.1109/LSP.2020.3008082>

Ni, Xingyang ja Heikki Huttunen. "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>

Tervo, Oskari et al. "5G new radio evolution towards sub-THz communications". *2nd 6G Wireless Summit 2020: Gain Edge for the 6G Era, 6G SUMMIT 2020*. IEEE. 2020. <https://doi.org/10.1109/6GSUMMIT49458.2020.9083807>

Le, Duc, Leena Ukkonen, ja Toni Björninen "Circularly Polarized Corner-Truncated and Slotted Microstrip Patch Antenna on Textile Substrate for Wearable Passive UHF RFID Tags". *14th European Conference on Antennas and Propagation, EuCAP 2020*. 14th European Conference on Antennas and Propagation, EuCAP 2020. IEEE. 2020. <https://doi.org/10.23919/EuCAP48036.2020.9135984>

Raitoharju, M. et al. "Gaussian mixture models for signal mapping and positioning". *Signal Processing*. 2020. 168. <https://doi.org/10.1016/j.sigpro.2019.107330>

Ahmed, Shahbaz et al. "Headband Antenna for Wireless Power Transfer to Millimeter-Sized Neural Implants with Minimal Misalignment Effects". *14th European Conference on Antennas and Propagation, EuCAP 2020*. 14th European Conference on Antennas and Propagation, EuCAP 2020. IEEE. 2020. <https://doi.org/10.23919/EuCAP48036.2020.9135977>

Petrov, Vitaly et al. "Measurements of Reflection and Penetration Losses in Low Terahertz Band Vehicular Communications". *14th European Conference on Antennas and Propagation, EuCAP 2020*. 14th European Conference on Antennas and Propagation, EuCAP 2020. Institute of Electrical and Electronics Engineers Inc. 2020. <https://doi.org/10.23919/EuCAP48036.2020.9135389>

Khan, Zahangir et al. "Protective Coating Methods for Glove-Integrated RFID Tags - A Preliminary Study". *14th European Conference on Antennas and Propagation, EuCAP 2020*. 14th European Conference on Antennas and Propagation, EuCAP 2020. IEEE. 2020. <https://doi.org/10.23919/EuCAP48036.2020.9135632>

Eyraud, C. et al. "Towards Asteroid Tomography: Modellings and Measurements Using an Analogue Model". *14th European Conference on Antennas and Propagation, EuCAP 2020*. 14th European Conference on Antennas and Propagation, EuCAP 2020. IEEE. 2020. <https://doi.org/10.23919/EuCAP48036.2020.9136060>

Passalis, Nikolaos et al. "Adaptive Normalization for Forecasting Limit Order Book Data Using Convolutional Neural Networks". *2020 IEEE International Conference on Acoustics, Speech, and Signal Processing, ICASSP 2020 - Proceedings*. ICASSP, IEEE International Conference on Acoustics, Speech and Signal Processing - Proceedings. IEEE. 2020, 1713-1717. <https://doi.org/10.1109/ICASSP40776.2020.9054321>

Yang, Miao et al. "Peer to Peer Offloading with Delayed Feedback: An Adversary Bandit Approach". *2020 IEEE International Conference on Acoustics, Speech, and Signal Processing, ICASSP 2020 - Proceedings*. ICASSP, IEEE International Conference on Acoustics, Speech and Signal Processing - Proceedings. IEEE. 2020, 5035-5039. <https://doi.org/10.1109/ICASSP40776.2020.9053680>

Parlin, Karel ja Taneli Riihonen "Analog Mitigation of Frequency-Modulated Interference for Improved GNSS Reception"., Nurmi, Jari, Lohan, Elena-Simona Torres-Sospedra, Joaquin Kuusniemi, Heidi Ometov, Aleksandr (toimittaneet). *2020 International Conference on Localization and GNSS, ICL-GNSS 2020 - Proceedings*. 2020 International Conference on Localization and GNSS, ICL-GNSS 2020 - Proceedings. IEEE. 2020. <https://doi.org/10.1109/ICL-GNSS49876.2020.9115518>

Wang, Wenbo et al. "Modeling and Mitigating 5G Wireless Downlink Interferences for Low-altitude Aerial vehicles"., Nurmi, Jari, Lohan, Elena-Simona Torres-Sospedra, Joaquin Kuusniemi, Heidi Ometov, Aleksandr (toimittaneet). *2020 International Conference on Localization and GNSS, ICL-GNSS 2020 - Proceedings*. 2020 International Conference on Localization and GNSS, ICL-GNSS 2020 - Proceedings. IEEE. 2020. <https://doi.org/10.1109/ICL-GNSS49876.2020.9115534>

Karttunen, Aki, Mikko Valkama, ja Jukka Talvitie "Positioning Based on Noise-Limited Censored Path Loss Data"., Nurmi, Jari, Lohan, Elena-Simona Torres-Sospedra, Joaquin Kuusniemi, Heidi Ometov, Aleksandr (toimittaneet). *2020 International Conference on Localization and GNSS, ICL-GNSS 2020 - Proceedings*. 2020 International Conference on Localization and GNSS, ICL-GNSS 2020 - Proceedings. IEEE. 2020. <https://doi.org/10.1109/ICL-GNSS49876.2020.9115572>

Barneto, Carlos Baquero et al. "Radio-based Sensing and Indoor Mapping with Millimeter-Wave 5G NR Signals"., Nurmi, Jari, Lohan, Elena-Simona Torres-Sospedra, Joaquin Kuusniemi, Heidi Ometov, Aleksandr (toimittaneet). *2020 International Conference on Localization and GNSS, ICL-GNSS 2020 - Proceedings*. 2020 International Conference on Localization and GNSS, ICL-GNSS 2020 - Proceedings. IEEE. 2020. <https://doi.org/10.1109/ICL-GNSS49876.2020.9115568>