

Parlin, Karel ; Riihonen, Taneli. / **Analog Mitigation of Frequency-Modulated Interference for Improved GNSS Reception.** 2020 International Conference on Localization and GNSS, ICL-GNSS 2020 - Proceedings. Toimittaja / Jari Nurmi ; Elena-Simona Lohan ; Joaquin Torres-Sospedra ; Heidi Kuusniemi ; Aleksandr Ometov. IEEE, 2020. (2020 International Conference on Localization and GNSS, ICL-GNSS 2020 - Proceedings).

Wang, Wenbo ; Fath, Thilo ; Valkama, Mikko ; Lohan, Elena Simona. / **Modeling and Mitigating 5G Wireless Downlink Interferences for Low-altitude Aerial vehicles.** 2020 International Conference on Localization and GNSS, ICL-GNSS 2020 - Proceedings. Toimittaja / Jari Nurmi ; Elena-Simona Lohan ; Joaquin Torres-Sospedra ; Heidi Kuusniemi ; Aleksandr Ometov. IEEE, 2020. (2020 International Conference on Localization and GNSS, ICL-GNSS 2020 - Proceedings).

Karttunen, Aki ; Valkama, Mikko ; Talvitie, Jukka. / **Positioning Based on Noise-Limited Censored Path Loss Data.** 2020 International Conference on Localization and GNSS, ICL-GNSS 2020 - Proceedings. Toimittaja / Jari Nurmi ; Elena-Simona Lohan ; Joaquin Torres-Sospedra ; Heidi Kuusniemi ; Aleksandr Ometov. IEEE, 2020. (2020 International Conference on Localization and GNSS, ICL-GNSS 2020 - Proceedings).

Barneto, Carlos Baquero ; Riihonen, Taneli ; Turunen, Matias ; Koivisto, Mike ; Talvitie, Jukka ; Valkama, Mikko. / **Radio-based Sensing and Indoor Mapping with Millimeter-Wave 5G NR Signals.** 2020 International Conference on Localization and GNSS, ICL-GNSS 2020 - Proceedings. Toimittaja / Jari Nurmi ; Elena-Simona Lohan ; Joaquin Torres-Sospedra ; Heidi Kuusniemi ; Aleksandr Ometov. IEEE, 2020. (2020 International Conference on Localization and GNSS, ICL-GNSS 2020 - Proceedings).

Passalis, Nikolaos ; Tefas, Anastasios ; Kanninen, Juho ; Gabbouj, Moncef ; Iosifidis, Alexandros. / **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. IEEE, 2020. Sivut 1713-1717 (ICASSP, IEEE International Conference on Acoustics, Speech and Signal Processing - Proceedings).

Yang, Miao ; Zhu, Hongbin ; Wang, Haifeng ; Koucheryavy, Yevgeni ; Samouylov, Konstantin ; Qian, Hua. / **Peer to Peer Offloading with Delayed Feedback : An Adversary Bandit Approach.** 2020 IEEE International Conference on Acoustics, Speech, and Signal Processing, ICASSP 2020 - Proceedings. IEEE, 2020. Sivut 5035-5039 (ICASSP, IEEE International Conference on Acoustics, Speech and Signal Processing - Proceedings).

Tervo, Oskari ; Levanen, Toni ; Pajukoski, Kari ; Hulkkonen, Jari ; Wainio, Pekka ; Valkama, Mikko. / **5G new radio evolution towards sub-THz communications.** 2nd 6G Wireless Summit 2020: Gain Edge for the 6G Era, 6G SUMMIT 2020. IEEE, 2020.

Le, Duc ; Ukkonen, Leena ; Björninen, Toni. / **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. IEEE, 2020. (14th European Conference on Antennas and Propagation, EuCAP 2020).

Raitoharju, M. ; García-Fernández, F. ; Hostettler, R. ; Piché, R. ; Särkkä, S. / **Gaussian mixture models for signal mapping and positioning.** Julkaisussa: Signal Processing. 2020 ; Vuosikerta 168.

Ahmed, Shahbaz ; Sydänheimo, Lauri ; Ukkonen, Leena ; Björninen, Toni. / **Headband Antenna for Wireless Power Transfer to Millimeter-Sized Neural Implants with Minimal Misalignment Effects.** 14th European Conference on Antennas and Propagation, EuCAP 2020. IEEE, 2020. (14th European Conference on Antennas and Propagation, EuCAP 2020).

Petrov, Vitaly ; Eckhardt, Johannes M. ; Moltchanov, Dmitri ; Koucheryavy, Yevgeni ; Kurner, Thomas. / **Measurements of Reflection and Penetration Losses in Low Terahertz Band Vehicular Communications.** 14th European Conference on Antennas and Propagation, EuCAP 2020. Institute of Electrical and Electronics Engineers Inc., 2020. (14th European Conference on Antennas and Propagation, EuCAP 2020).

Khan, Zahangir ; He, Han ; Chen, Xiaochen ; Ukkonen, Leena ; Virkki, Johanna. / **Protective Coating Methods for Glove-Integrated RFID Tags - A Preliminary Study.** 14th European Conference on Antennas and Propagation, EuCAP 2020. IEEE, 2020. (14th European Conference on Antennas and Propagation, EuCAP 2020).

Eyraud, C. ; Sorsa, L. I. ; Herique, A. ; Geffrin, J. M. ; Pursiainen, S. ; Kofman, W. / **Towards Asteroid Tomography : Modellings and Measurements Using an Analogue Model**. 14th European Conference on Antennas and Propagation, EuCAP 2020. IEEE, 2020. (14th European Conference on Antennas and Propagation, EuCAP 2020).

Gapeyenko, Margarita ; Petrov, Vitaly ; Moltchanov, Dmitri ; Yeh, Shu Ping ; Himayat, Nageen ; Andreev, Sergey. / **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, 2020. (IEEE/CIC international conference on communications in China - workshops).

Belyaev, Evgeny ; Codreanu, Marian ; Juntti, Markku ; Egiazarian, Karen. / **Compressive sensed video recovery via iterative thresholding with random transforms**. Julkaisussa: IET Image Processing. 2020 ; Vuosikerta 14, Nro 6. Sivut 1187-1200.

Nasarre, Ismael Peruga ; Levanen, Toni ; Valkama, Mikko. / **Constrained PSK : Energy-efficient modulation for Sub-THz systems**. 2020 IEEE International Conference on Communications Workshops, ICC Workshops 2020 - Proceedings. IEEE, 2020. (IEEE/CIC international conference on communications in China - workshops).

Brihuega, Alberto ; Anttila, Lauri ; Abdelaziz, Mahmoud ; Eriksson, Thomas ; Tufvesson, Fredrik ; Valkama, Mikko. / **Digital Predistortion for Multiuser Hybrid MIMO at mmWaves**. Julkaisussa: IEEE Transactions on Signal Processing. 2020 ; Vuosikerta 68. Sivut 3603-3618.

Ilves, Mirja ; Rantanen, Ville ; Venesvirta, Hanna ; Lylykangas, Jani ; Vehkaoja, Antti ; Mäkelä, Eeva ; Verho, Jarmo ; Lekkala, Jukka ; Rautiainen, Markus ; Surakka, Veikko. / **Functional electrical stimulation for facial pacing : Effects of waveforms on movement intensity and ratings of discomfort**. Julkaisussa: Biomedical Signal Processing and Control. 2020 ; Vuosikerta 60.

Pirhonen, Mikko ; Vehkaoja, Antti. / **Fusion enhancement for tracking of respiratory rate through intrinsic mode functions in photoplethysmography**. Julkaisussa: Biomedical Signal Processing and Control. 2020 ; Vuosikerta 59.

Sohrab, Fahad ; Raitoharju, Jenni ; Iosifidis, Alexandros ; Gabbouj, Moncef. / **Multimodal subspace support vector data description**. Julkaisussa: Pattern Recognition. 2020 ; Vuosikerta 110.

Magron, Paul ; Virtanen, Tuomas. / **Online Spectrogram Inversion for Low-Latency Audio Source Separation**. Julkaisussa: IEEE Signal Processing Letters. 2020 ; Vuosikerta 27. Sivut 306-310.

Genocchi, Barbara ; Cunha, Andre ; Jain, Soumil ; Hyttinen, Jari ; Lenk, Kerstin ; Ellingsrud, Ada Johanne. / **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. IEEE, 2020. Sivut 2491-2495 (Annual International Conference of the IEEE Engineering in Medicine and Biology Society).

He, Han ; Chen, Xiaochen ; Raivio, Leevi ; Huttunen, Heikki ; Virkki, Johanna. / **Passive RFID-based Textile Touchpad**. 14th European Conference on Antennas and Propagation, EuCAP 2020. IEEE, 2020.

Tafintsev, Nikita ; Moltchanov, Dmitri ; Simsek, Meryem ; Yeh, Shu Ping ; Andreev, Sergey ; Koucheryavy, Yevgeni ; Valkama, Mikko. / **Reinforcement learning for improved UAV-based integrated access and backhaul operation**. 2020 IEEE International Conference on Communications Workshops, ICC Workshops 2020 - Proceedings. IEEE, 2020. (IEEE/CIC international conference on communications in China - workshops).

Gao, Yuan ; Bregovic, Robert ; Gotchev, Atanas. / **Self-Supervised Light Field Reconstruction Using Shearlet Transform and Cycle Consistency**. Julkaisussa: IEEE Signal Processing Letters. 2020 ; Vuosikerta 27. Sivut 1425-1429.

Ni, Xingyang ; Huttunen, Heikki. / **Vehicle Attribute Recognition by Appearance : Computer Vision Methods for Vehicle Type, Make and Model Classification**. Julkaisussa: Journal of Signal Processing Systems. 2020.

Hassan, Syeda Sakira ; Huttunen, Heikki ; Niemi, Jari ; Tohka, Jussi. / **Bayesian receiver operating characteristic metric for linear classifiers**. Julkaisussa: Pattern Recognition Letters. 2019 ; Vuosikerta 128. Sivut 52-59.

Heljakka, Katriina ; Ihamaki, Pirita ; Tuomi, Pauliina ; Saarikoski, Petri. / **Gamified coding : Toy robots and playful learning in early education**. Proceedings - 6th Annual Conference on Computational Science and Computational Intelligence, CSCI 2019. IEEE, 2019. Sivut 800-805

Rostami, Soheil ; Lagen, Sandra ; Costa, Mario ; Dlni, Paolo ; Valkama, Mikko. / **Optimized wake-up scheme with bounded delay for energy-efficient MTC**. 2019 IEEE Global Communications Conference, GLOBECOM 2019 - Proceedings. IEEE, 2019.

Gerasimenko, Mikhail ; Pokorny, Jiri ; Schneider, Tibor ; Sirjov, Jakub ; Andreev, Sergey ; Hosek, Jiri. / **Prototyping directional UAV-based wireless access and backhaul systems**. 2019 IEEE Global Communications Conference, GLOBECOM 2019 - Proceedings. IEEE, 2019.

Brihuega, Alberto ; Abdelaziz, Mahmoud ; Anttila, Lauri ; Barneto, Carlos Baquero ; Valkama, Mikko. / **Closed-Loop DPD for Digital MIMO Transmitters under Antenna Crosstalk**. Conference Record - 53rd Asilomar Conference on Circuits, Systems and Computers, ACSSC 2019. Toimittaja / Michael B. Matthews. IEEE Computer Society, 2019. Sivut 1682-1689 (Conference Record - Asilomar Conference on Signals, Systems and Computers).

Petrov, Vitaly ; Fodor, Gabor ; Andreev, Sergey ; Do, Hieu ; Sahlin, Henrik. / **V2X Connectivity : From LTE to Joint Millimeter Wave Vehicular Communications and Radar Sensing**. Conference Record - 53rd Asilomar Conference on Circuits, Systems and Computers, ACSSC 2019. Toimittaja / Michael B. Matthews. IEEE Computer Society, 2019. Sivut 1120-1124 (Conference Record - Asilomar Conference on Signals, Systems and Computers).

Qian, Yanlin ; Chen, Ke ; Yu, Huanglin. / **Fast fourier color constancy and grayness index for ISPA illumination estimation challenge**. ISPA 2019 - 11th International Symposium on Image and Signal Processing and Analysis. Toimittaja / Sven Loncaric ; Robert Bregovic ; Marco Carli ; Marko Subasic. IEEE, 2019. Sivut 352-354 (International Symposium on Image and Signal Processing and Analysis, ISPA).

Ferranti, Luca ; Boutellier, Jani. / **Towards Algebraic Modeling of GPU Memory Access for Bank Conflict Mitigation**. 2019 IEEE International Workshop on Signal Processing Systems, SiPS 2019. IEEE, 2019. Sivut 103-108

Rajput, Shailendra ; Averbukh, Moshe ; Yahalom, Asher ; Minav, Tatiana. / **An approval of MPPT based on pv cell's simplified equivalent circuit during fast-shading conditions**. Julkaisussa: Electronics (Switzerland). 2019 ; Vuosikerta 8, Nro 9.

Garcia-Molla, Victor M. ; San Juan, Pablo ; Virtanen, Tuomas ; Vidal, Antonio M. ; Alonso, Pedro. / **Generalization of the K-SVD algorithm for minimization of β -divergence**. Julkaisussa: Digital Signal Processing: A Review Journal. 2019 ; Vuosikerta 92. Sivut 47-53.

Fu, Junsheng ; Pertuz, Said ; Matas, Jiri ; Kämäräinen, Joni-Kristian. / **Performance analysis of single-query 6-DoF camera pose estimation in self-driving setups**. Julkaisussa: Computer Vision and Image Understanding. 2019 ; Vuosikerta 186. Sivut 58-73.

Masek, Pavel ; Stusek, Martin ; Zeman, Krystof ; Mozny, Radek ; Ometov, Aleksandr ; Hosek, Jiří. / **A perspective on wireless M-bus for smart electricity grids**. 2019 42nd International Conference on Telecommunications and Signal Processing, TSP 2019. Toimittaja / Norbert Herencsar. IEEE, 2019. Sivut 730-735

Al-Sa'd, Mohammad F. ; Boashash, Boualem. / **Design and implementation of a multi-sensor newborn EEG seizure and background model with inter-channel field characterization**. Julkaisussa: Digital Signal Processing: A Review Journal. 2019 ; Vuosikerta 90. Sivut 71-99.

Rusu, Corneliu ; Astola, Jaakko. / **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.

Mozny, Radek ; Masek, Pavel ; Stusek, Martin ; Zeman, Krystof ; Ometov, Aleksandr ; Hosek, Jiří. / **On the performance of narrow-band internet of things (NB-IoT) for delay-tolerant services.** 2019 42nd International Conference on Telecommunications and Signal Processing, TSP 2019. Toimittaja / Norbert Herencsar. IEEE, 2019. Sivut 637-642 (2019 42nd International Conference on Telecommunications and Signal Processing, TSP 2019).

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

Moltchanov, Dmitri ; Kovalchukov, Roman ; Gerasimenko, Mikhail ; Andreev, Sergey ; Koucheryavy, Yevgeni ; Gerla, Mario. / **Socially inspired relaying and proactive mode selection in mmWave vehicular communications.** Julkaisussa: IEEE Internet of Things Journal. 2019 ; Vuosikerta 6, Nro 3. Sivut 5172-5183.

Kiranyaz, Serkan ; Ince, Turker ; Abdeljaber, Osama ; Avci, Onur ; Gabbouj, Moncef. / **1-D Convolutional Neural Networks for Signal Processing Applications.** 2019 IEEE International Conference on Acoustics, Speech, and Signal Processing, ICASSP 2019 - Proceedings. IEEE, 2019. Sivut 8360-8364

Nogues, E. ; Mercat, A. ; Arrestier, F. ; Pelcat, M. ; Menard, D. / **Convex Energy Optimization of Streaming Applications for MPSoCs.** 2019 IEEE International Conference on Acoustics, Speech, and Signal Processing, ICASSP 2019 - Proceedings. IEEE, 2019. Sivut 1557-1561

Purwins, Hendrik ; Li, Bo ; Virtanen, Tuomas ; Schlüter, Jan ; Chang, Shuo Yiin ; Sainath, Tara. / **Deep Learning for Audio Signal Processing.** Julkaisussa: IEEE Journal on Selected Topics in Signal Processing. 2019 ; Vuosikerta 13, Nro 2. Sivut 206-219.

Zarkias, Konstantinos Saitas ; Passalis, Nikolaos ; Tsantekidis, Avraam ; Tefas, Anastasios. / **Deep Reinforcement Learning for Financial Trading Using Price Trailing.** 2019 IEEE International Conference on Acoustics, Speech, and Signal Processing, ICASSP 2019 - Proceedings. IEEE, 2019. Sivut 3067-3071

Passalis, Nikolaos ; Tefas, Anastasios ; Kannianen, Juho ; Gabbouj, Moncef ; Iosifidis, Alexandros. / **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. Sivut 7545-7549

Wang, Shanshan ; Naithani, Gaurav ; Virtanen, Tuomas. / **Low-latency Deep Clustering for Speech Separation.** 2019 IEEE International Conference on Acoustics, Speech, and Signal Processing, ICASSP 2019 - Proceedings. IEEE, 2019. Sivut 76-80

Pertuz, Said ; Torres, German F. ; Tamimi, Rulla ; Kämäräinen, Joni. / **Open framework for mammography-based breast cancer risk assessment.** 2019 IEEE EMBS International Conference on Biomedical and Health Informatics, BHI 2019 - Proceedings. IEEE, 2019.

Amestoy, Thomas ; Mercat, Alexandre ; Hamidouche, Wassim ; Bergeron, Cyril ; Menard, Daniel. / **Random Forest Oriented Fast QTBT Frame Partitioning.** 2019 IEEE International Conference on Acoustics, Speech, and Signal Processing, ICASSP 2019 - Proceedings. IEEE, 2019. Sivut 1837-1841

Pertilä, Pasi ; Parviainen, Mikko. / **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. Sivut 436-440

Passalis, Nikolaos ; Mourgias-Alexandris, George ; Tsakyridis, Apostolos ; Pleros, Nikos ; Tefas, Anastasios. / **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. Sivut 1483-1487

Khan, Muhammad Adnan ; Vehmas, Risto ; Visa, Ari. / **Automatic detection of water inside concrete slabs using ground penetrating radar**. 2019 IEEE Radar Conference, RadarConf 2019. IEEE, 2019.

Petrov, Vitaly ; Moltchanov, Dmitri ; Jornet, Josep Miquel ; Koucheryavy, Yevgeni. / **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. Sivut 865-872

Cai, Dingding ; Chen, Ke ; Qian, Yanlin ; Kämäräinen, Joni-Kristian. / **Convolutional low-resolution fine-grained classification**. Julkaisussa: Pattern Recognition Letters. 2019 ; Vuosikerta 119. Sivut 166-171.

Yoo, Seong Ki ; Cotton, Simon L. ; Sofotasios, Paschalis C. ; Muhaidat, Sami ; Badarneh, Osamah S. ; Karagiannidis, George K. / **Energy Detection-Based Spectrum Sensing over Fisher-Snedecor F Fading Channels**. 2018 IEEE Global Communications Conference. IEEE, 2019.

Kovalchukov, Roman ; Moltchanov, Dmitri ; Begishev, Vyacheslav ; Samuylov, Andrey ; Andreev, Sergey ; Koucheryavy, Yevgeni ; Samouylov, Konstantin. / **Improved Session Continuity in 5G NR with Joint Use of Multi-Connectivity and Guard Bandwidth**. 2018 IEEE Global Communications Conference, GLOBECOM 2018. IEEE, 2019.

Al-Ars, Zaid ; van der Vlugt, Steven ; Jääskeläinen, Pekka ; van der Linden, Frank. / **ALMARVI System Solution for Image and Video Processing in Healthcare, Surveillance and Mobile Applications**. Julkaisussa: Journal of Signal Processing Systems. 2019 ; Vuosikerta 91, Nro 1. Sivut 1-7.

Pascual Campo, Pablo ; Lampu, Vesa ; Meirhaeghe, Alexandre ; Boutellier, Jani ; Anttila, Lauri ; Valkama, Mikko. / **Digital Predistortion for 5G Small Cell : GPU Implementation and RF Measurements**. Julkaisussa: Journal of Signal Processing Systems. 2019.

Meirhaeghe, Alexandre ; Boutellier, Jani ; Collin, Jussi. / **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.

Schwarz, Sebastian ; Sheikhipour, Nahid ; Fakour Sevom, Vida ; Hannuksela, Miska M. / **Video coding of dynamic 3D point cloud data**. Julkaisussa: APSIPA Transactions on Signal and Information Processing. 2019.

Mahkonen, Katariina ; Virtanen, Tuomas ; Kämäräinen, Joni. / **Cascade of Boolean detector combinations**. Julkaisussa: Eurasip Journal on Image and Video Processing. 2018 ; Vuosikerta 2018.

Sapio, Adrian ; Bhattacharyya, Shuvra S. ; Wolf, Marilyn. / **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. IEEE COMPUTER SOCIETY PRESS, 2018. Sivut 13-18 (Conference on Design and Architectures for Signal and Image Processing, DASIP).

Mesaros, Annamaria ; Heittola, Toni ; Virtanen, Tuomas. / **Acoustic scene classification : An overview of dcase 2017 challenge entries**. 16th International Workshop on Acoustic Signal Enhancement, IWAENC 2018. IEEE, 2018. Sivut 411-415

Shuyang, Zhao ; Heittola, Toni ; Virtanen, Tuomas. / **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. Sivut 116-120

Naithani, Gaurav ; Nikunen, Joonas ; Bramslow, Lars ; Virtanen, Tuomas. / **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. Sivut 386-390

Nikunen, Joonas ; Politis, Archontis. / **Multichannel NMF for source separation with ambisonic signals.** 16th International Workshop on Acoustic Signal Enhancement, IWAENC 2018 . IEEE, 2018. Sivut 251-255

Parviainen, Mikko ; Pertila, Pasi ; Virtanen, Tuomas ; Grosche, Peter. / **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. Sivut 51-55

Huang, Guangpu ; Heittola, Toni ; Virtanen, Tuomas. / **Using sequential information in polyphonic sound event detection.** 16th International Workshop on Acoustic Signal Enhancement, IWAENC 2018. IEEE, 2018. Sivut 291-295

Nurminen, Henri ; Ardeshiri, Tohid ; Piche, Robert ; Gustafsson, Fredrik. / **Skew-t Filter and Smoother with Improved Covariance Matrix Approximation.** Julkaisussa: IEEE Transactions on Signal Processing. 2018 ; Vuosikerta 66, Nro 21. Sivut 5618-5633.

Hautala, Ilkka ; Boutellier, Jani ; Nyländen, Teemu ; Silvén, Olli. / **Toward Efficient Execution of RVC-CAL Dataflow Programs on Multicore Platforms.** Julkaisussa: Journal of Signal Processing Systems. 2018 ; Vuosikerta 90, Nro 11. Sivut 1507-1517.

Acimovic, Jugoslava ; Teppola, Heidi ; Mäki-Marttunen, Tuomo Mikael ; Linne, Marja-Leena. / **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?.** Julkaisussa: BMC Neuroscience. 2018 ; Vuosikerta 19, Nro Suppl 2. Sivut 68-69.

Niemi, Juha ; Tanttu, Juha. / **Deep Learning Case Study for Automatic Bird Identification.** Julkaisussa: Applied Sciences (Switzerland). 2018 ; Vuosikerta 8, Nro 11.

Tripathy, Soumya Ranjan ; Chakravarty, Kingshuk ; Sinha, Aniruddha. / **Eigen Posture Based Fall Risk Assessment System Using Kinect.** 40th Annual International Conference of the IEEE Engineering in Medicine and Biology Society, EMBC 2018. Vuosikerta 2018-July IEEE, 2018. Sivut 1-4

Mehrang, Saeed ; Jauhiainen, Milla ; Pietilä, Julia ; Puustinen, Juha ; Ruokolainen, Jari ; Nieminen, Hannu. / **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. Vuosikerta 2018-July Institute of Electrical and Electronics Engineers Inc., 2018. Sivut 2913-2916

Tarniceriu, Adrian ; Harju, Jarkko ; Yousefi, Zeinab Rezaei ; Vehkaoja, Antti ; Parak, Jakub ; Yli-Hankala, Arvi ; Korhonen, Ilkka. / **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. Vuosikerta 2018-July IEEE, 2018. Sivut 4844-4847

Raitoharju, Jenni ; Riabchenko, Ekaterina ; Ahmad, Iftikhar ; Iosifidis, Alexandros ; Gabbouj, Moncef ; Kiranyaz, Serkan ; Tirronen, Ville ; Ärje, Johanna ; Kärkkäinen, Salme ; Meissner, Kristian. / **Benchmark database for fine-grained image classification of benthic macroinvertebrates.** Julkaisussa: Image and Vision Computing. 2018 ; Vuosikerta 78. Sivut 73-83.

Ma, Huadong ; Yu, Shui ; Gabbouj, Moncef ; Mueller, Peter. / **Guest Editorial Special Issue on Multimedia Big Data in Internet of Things.** Julkaisussa: IEEE Internet of Things Journal. 2018 ; Vuosikerta 5, Nro 5. Sivut 3405-3407.

Multanen, Joonas ; Kultala, Heikki ; Jääskeläinen, Pekka ; Viitanen, Timo ; Tervo, Alekski ; Takala, Jarmo. / **LoTTA: Energy-Efficient Processor for Always-on Applications.** 2018 IEEE International Workshop on Signal Processing Systems (SiPS). IEEE, 2018.

Acimovic, Jugoslava ; Teppola, Heidi ; Mäki-Marttunen, Tuomo Mikael ; Linne, Marja-Leena. / **Data-driven study of synchronous popula on ac vity in generic spiking neuronal networks: How much do we capture using the minimal model for the considered phenomena?**. Julkaisun esittämisaikka: Brain and Mind Symposium 2018, Helsinki, Suomi.

Lee, Kyunghun ; Riggan, Benjamin S. ; Bhattacharyya, Shuvra S. / **A joint target localization and classification framework for sensor networks**. 2018 IEEE International Conference on Acoustics, Speech, and Signal Processing, ICASSP 2018 - Proceedings. Vuosikerta 2018-April Institute of Electrical and Electronics Engineers Inc., 2018. Sivut 3076-3080

Nikunen, Joonas ; Virtanen, Tuomas. / **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. Vuosikerta 2018-April Institute of Electrical and Electronics Engineers Inc., 2018. Sivut 421-425 (Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing).

Malik, Junaid ; Aytakin, Caglar ; Gabbouj, Moncef. / **Low-energy graph fourier basis functions span salient objects**. 2018 IEEE International Conference on Acoustics, Speech, and Signal Processing, ICASSP 2018 - Proceedings. Vuosikerta 2018-April Institute of Electrical and Electronics Engineers Inc., 2018. Sivut 1548-1552

Egiazarian, Karen ; Ponomarenko, Mykola ; Lukin, Vladimir ; Ieremeiev, Oleg. / **Statistical Evaluation of Visual Quality Metrics for Image Denoising**. 2018 IEEE International Conference on Acoustics, Speech, and Signal Processing, ICASSP 2018 - Proceedings. Vuosikerta 2018-April Institute of Electrical and Electronics Engineers Inc., 2018. Sivut 6752-6756

Schwarz, Sebastian ; Hannuksela, Miska M. ; Fakour-Sevom, Vida ; Sheikhi-Pour, Nahid. / **2D Video Coding of Volumetric Video Data**. 2018 Picture Coding Symposium, PCS 2018 - Proceedings. IEEE, 2018. Sivut 61-65

Solin, Arno ; Cortes, Santiago ; Rahtu, Esa ; Kannala, Juho. / **Inertial Odometry on Handheld Smartphones**. 2018 21st International Conference on Information Fusion, FUSION 2018. IEEE, 2018. Sivut 1361-1368

Rastorgueva-Foi, Elizaveta ; Costa, Mário ; Koivisto, Mike ; Leppänen, Kari ; Valkama, Mikko. / **User Positioning in mmW 5G Networks Using Beam-RSRP Measurements and Kalman Filtering**. 2018 21st International Conference on Information Fusion, FUSION 2018. IEEE, 2018. Sivut 1150-1156

Eslahi, Nasser ; Foi, Alessandro. / **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, IVMSWP 2018 - Proceedings. IEEE, 2018.

Carabias-Orti, J. J. ; Cabanas-Molero, P. ; Vera-Candeas, P. ; Nikunen, J. / **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. IEEE, 2018. Sivut 440-444 (Proceedings of the IEEE Sensor Array and Multichannel Signal Processing Workshop).

Zhang, Honglei ; Kiranyaz, Serkan ; Gabbouj, Moncef. / **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. Sivut 262-268

Khosravi, Zeinab ; Gerasimenko, Mikhail ; Andreev, Sergey ; Koucheryavy, Yevgeni. / **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. Sivut 150-153

Pihlajasalo, Jaakko ; Leppäkoski, Helena ; Ali-Löytty, Simo ; Piché, Robert. / **Improvement of GPS and BeiDou extended orbit predictions with CNNs**. 26th European Navigation Conference, ENC 2018: Gothenburg, Sweden, 14-17 May, 2018. IEEE, 2018. Sivut 54-59

Cruz, Cristovao ; Foi, Alessandro ; Katkovnik, Vladimir ; Egiazarian, Karen. / **Nonlocality-Reinforced Convolutional Neural Networks for Image Denoising**. Julkaisussa: IEEE Signal Processing Letters. 2018 ; Vuosikerta 25, Nro 8. Sivut 1216-1220.

Tejero-de-Pablos, Antonio ; Nakashima, Yuta ; Sato, Tomokazu ; Yokoya, Naokazu ; Linna, Marko ; Rahtu, Esa. / **Summarization of User-Generated Sports Video by Using Deep Action Recognition Features**. Julkaisussa: IEEE Transactions on Multimedia. 2018 ; Vuosikerta 20, Nro 8. Sivut 2000-2011.

Henno, J. ; Jaakkola, H. ; Makela, J. / **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. Sivut 701-708

Jaakkola, H. ; Thalheim, B. ; Henno, J. ; Mäkelä, J. ; Keto, H. / **Role of the user in information systems development**. 2018 41st International Convention on Information and Communication Technology, Electronics and Microelectronics, MIPRO 2018. IEEE, 2018. Sivut 625-632

Riihonen, Taneli ; Korpi, Dani ; Turunen, Matias ; Valkama, Mikko. / **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. Sivut 1-4

Phan, Duy ; Rodrigues, Sérgio S. / **Stabilization to trajectories for parabolic equations**. Julkaisussa: Mathematics of Control, Signals, and Systems. 2018 ; Vuosikerta 30, Nro 2.

Daniel, Ondrej ; Wymeersch, Henk ; Nurmi, Jari. / **Delay-Accuracy Trade-off in Opportunistic Time-of-Arrival Localization**. Julkaisussa: IEEE Signal Processing Letters. 2018 ; Vuosikerta 25, Nro 6. Sivut 763-767.

Abdelaziz, Mahmoud ; Anttila, Lauri ; Brihuega, Alberto ; Tufvesson, Fredrik ; Valkama, Mikko. / **Digital Predistortion for Hybrid MIMO Transmitters**. Julkaisussa: IEEE Journal on Selected Topics in Signal Processing. 2018 ; Vuosikerta 12, Nro 3. Sivut 445-454.

Tran, Dat Thanh ; Waris, Muhammad Adeel ; Gabbouj, Moncef ; Iosifidis, Alexandras. / **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. Sivut 1-6

Schiopu, Ionut ; Gabbouj, Moncef ; Iosifidis, Alexandres ; Zeng, Bing ; Liu, Shuaicheng. / **Subaperture image segmentation for lossless compression**. Proceedings of the 7th International Conference on Image Processing Theory, Tools and Applications, IPTA 2017. IEEE, 2018. Sivut 1-6

Krogerus, Tomi ; Hyvönen, Mika ; Huhtala, Kalevi. / **Analysis of common rail pressure signal of dual-fuel large industrial engine for identification of injection duration of pilot diesel injectors**. Julkaisussa: Fuel. 2018 ; Vuosikerta 216. Sivut 1-9.

Aytekin, Caglar ; Nikkanen, Jarno ; Gabbouj, Moncef. / **Deep multiresolution color constancy**. 2017 IEEE International Conference on Image Processing, ICIP 2017 - Proceedings. IEEE COMPUTER SOCIETY PRESS, 2018. Sivut 3735-3739

Curcio, Igor D.D. ; Toukoma, Henri ; Naik, Deepa. / **360-Degree video streaming and its subjective quality**. SMPTE 2017 Annual Technical Conference and Exhibition, SMPTE 2017. SMPTE, 2018. Sivut 1-23

Mesaros, Annamaria ; Heittola, Toni ; Benetos, Emmanouil ; Foster, Peter ; Lagrange, Mathieu ; Virtanen, Tuomas ; Plumbley, Mark D. / **Detection and Classification of Acoustic Scenes and Events : Outcome of the DCASE 2016 Challenge**. Julkaisussa: IEEE/ACM Transactions on Audio Speech and Language Processing. 2018 ; Vuosikerta 26, Nro 2. Sivut 379-393.

Raitoharju, Matti ; Svensson, Lennart ; Garcia-Fernandez, Angel Froilan ; Piche, Robert. / **Damped Posterior Linearization Filter**. Julkaisussa: IEEE Signal Processing Letters. 2018 ; Vuosikerta 25, Nro 4.

Raeesi, Orod ; Gokceoglu, Ahmet ; Valkama, Mikko. / **Estimation and Mitigation of Channel Non-Reciprocity in Massive MIMO**. Julkaisussa: IEEE Transactions on Signal Processing. 2018 ; Vuosikerta 66, Nro 10.

Wu, Jiahao ; Blattner, Timothy ; Keyrouz, Walid ; Bhattacharyya, Shuvra S. / **Model-Based Dynamic Scheduling for Multicore Signal Processing**. Julkaisussa: Journal of Signal Processing Systems. 2018 ; Sivut 1-14.

Azzari, Lucio ; Borges, Lucas Rodrigues ; Foi, Alessandro. / **Modeling and estimation of signal-dependent and correlated noise**. Denoising of Photographic Images and Video: Fundamentals, Open Challenges and New Trends. SPRINGER-VERLAG LONDON LTD, 2018. Sivut 1-36 (Advances in Computer Vision and Pattern Recognition).

Yuan, Jirui ; Gao, Ke ; Zhu, Pengfei ; Egiazarian, Karen. / **Multi-view predictive latent space learning**. Julkaisussa: Pattern Recognition Letters. 2018.

Aytekin, Caglar ; Iosifidis, Alexandros ; Gabbouj, Moncef. / **Probabilistic saliency estimation**. Julkaisussa: Pattern Recognition. 2018 ; Vuosikerta 74. Sivut 359-372.

Nikunen, Joonas ; Diment, Aleksandr ; Virtanen, Tuomas. / **Separation of Moving Sound Sources Using Multichannel NMF and Acoustic Tracking**. Julkaisussa: IEEE/ACM Transactions on Audio Speech and Language Processing. 2018 ; Vuosikerta 26, Nro 2. Sivut 281-295.

Thanh Tran, Dat ; Gabbouj, Moncef ; Iosifidis, Alexandros. / **Multilinear class-specific discriminant analysis**. Julkaisussa: Pattern Recognition Letters. 2017 ; Vuosikerta 100. Sivut 131-136.

Katkovnik, Vladimir ; Ponomarenko, Mykola ; Egiazarian, Karen. / **Sparse approximations in complex domain based on BM3D modeling**. Julkaisussa: Signal Processing. 2017 ; Vuosikerta 141. Sivut 96-108.

Wu, Jiahao ; Blattner, Timothy ; Keyrouz, Walid ; Bhattacharyya, Shuvra S. / **Model-based dynamic scheduling for multicore implementation of image processing systems**. 2017 IEEE International Workshop on Signal Processing Systems, SiPS 2017. IEEE, 2017.

Iosifidis, Alexandros ; Tefas, Anastasios ; Pitas, Ioannis ; Gabbouj, Moncef. / **Big Media Data Analysis**. Julkaisussa: Signal Processing: Image Communication. 2017 ; Vuosikerta 59. Sivut 105-108.

Lee, Kyunghun ; Riggan, Benjamin S. ; Bhattacharyya, Shuvra S. / **An optimized embedded target detection system using acoustic and seismic sensors**. 25th European Signal Processing Conference, EUSIPCO 2017. IEEE, 2017. Sivut 986-990

Ito, Izumi ; Egiazarian, Karen. / **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. Sivut 177-182

Carrera, Diego ; Boracchi, Giacomo ; Foi, Alessandro ; Wohlberg, Brendt. / **Sparse Overcomplete Denoising : Aggregation Versus Global Optimization**. Julkaisussa: IEEE Signal Processing Letters. 2017 ; Vuosikerta 24, Nro 10. Sivut 1468-1472.

Rusu, Corneliu ; Astola, Jaakko. / **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.

Astola, Pekka ; Tabus, Ioan. / **Lossless compression of high resolution disparity map images**. ISSCS 2017 - International Symposium on Signals, Circuits and Systems. IEEE, 2017.

Drgas, Szymon ; Virtanen, Tuomas ; Lücke, Jörg ; Hurmalainen, Antti. / **Binary Non-Negative Matrix Deconvolution for Audio Dictionary Learning**. Julkaisussa: IEEE/ACM Transactions on Audio Speech and Language Processing. 2017 ; Vuosikerta 25, Nro 8. Sivut 1644-1656.

Sheikh, Muhammad Usman ; Lempiäinen, Jukka. / **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. Sivut 1660-1664

Sheikh, Muhammad Usman ; Hiltunen, Kimmo ; Lempiäinen, Jukka. / **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. Sivut 1291-1296

Zhang, Honglei ; Kiranyaz, Serkan ; Gabbouj, Moncef. / **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. Sivut 2587-2591

Lee, Kyunghun ; Riggan, Benjamin S. ; Bhattacharyya, Shuvra S. / **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. Sivut 2976-2980

Korpi, Dani ; Riihonen, Taneli ; Valkama, Mikko. / **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. Sivut 6558-6562

Abdelaziz, Mahmoud ; Anttila, Lauri ; Valkama, Mikko. / **Reduced-complexity digital predistortion for massive MIMO**. 2017 IEEE International Conference on Acoustics, Speech, and Signal Processing, ICASSP 2017 - Proceedings. IEEE, 2017. Sivut 6478-6482

Ellervee, Peeter ; Nurmi, Jari. / **Guest Editorial : Implementation Issues in System-on-Chip**. Julkaisussa: Journal of Signal Processing Systems. 2017 ; Vuosikerta 87, Nro 3. Sivut 269-270.

Richard, G. ; Virtanen, T. ; Bello, J. P. ; Ono, N. ; Glotin, H. / **Introduction to the Special Section on Sound Scene and Event Analysis**. Julkaisussa: IEEE/ACM Transactions on Audio Speech and Language Processing. 2017 ; Vuosikerta 25, Nro 6. Sivut 1169-1171.

Hussain, Waqar ; Hoffmann, Henry ; Ahonen, Tapani ; Nurmi, Jari. / **Power Mitigation by Performance Equalization in a Heterogeneous Reconfigurable Multicore Architecture**. Julkaisussa: Journal of Signal Processing Systems. 2017 ; Vuosikerta 87, Nro 3. Sivut 287-297.

Dos Santos, Rochelle Schneider ; Taylor, Jonathon ; Davies, Michael ; Mavrogianni, Anna ; Milner, James. / **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. Institute of Electrical and Electronics Engineers Inc., 2017. (2017 Joint Urban Remote Sensing Event, JURSE 2017).

Kara, Peter A. ; Kovacs, Peter T. ; Vagharshakyan, Suren ; Martini, Maria G. ; Barsi, Attila ; Balogh, Tibor ; Chuchvara, Aleksandra ; Chehaibi, Ahmed. / **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. Sivut 781-786

Sapio, Adrian E. ; Wolf, Marilyn ; Bhattacharyya, Shuvra S. / **Compact modeling and management of reconfiguration in digital channelizer implementation**. 2016 IEEE Global Conference on Signal and Information Processing, GlobalSIP 2016 - Proceedings. IEEE, 2017. Sivut 595-599

Zare, Alireza ; Sreedhar, Kashyap Kammachi ; Vadakital, Vinod Kumar Malamal ; Aminlou, Alireza ; Hannuksela, Miska M. ; Gabbouj, Moncef. / **HEVC-compliant viewport-adaptive streaming of stereoscopic panoramic video**. 2016 Picture Coding Symposium, PCS 2016. IEEE, 2017.

- Katkovnik, Vladimir ; Egiazarian, Karen. / **Sparse phase imaging based on complex domain nonlocal BM3D techniques**. Julkaisussa: Digital Signal Processing. 2017 ; Vuosikerta 63. Sivut 72-85.
- Korpi, Dani ; Aghababaeetafreshi, Mona ; Piilila, Mauno ; Anttila, Lauri ; Valkama, Mikko. / **Advanced architectures for self-interference cancellation in full-duplex radios : Algorithms and measurements**. 2016 50th Asilomar Conference on Signals, Systems and Computers. IEEE, 2017. Sivut 1553-1557
- González-Díaz, Iván ; Birinci, Murat ; Díaz-De-María, Fernando ; Delp, Edward J. / **Neighborhood Matching for Image Retrieval**. Julkaisussa: IEEE Transactions on Multimedia. 2017 ; Vuosikerta 19, Nro 3. Sivut 544-558.
- Li, Lin ; Fanni, Tiziana ; Viitanen, Timo ; Xie, Renjie ; Palumbo, Francesca ; Raffo, Luigi ; Huttunen, Heikki ; Takala, Jarmo ; Bhattacharyya, Shuvra S. / **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. Sivut 82-89
- Murayama, Mizuki ; Oguro, Daisuke ; Kikuchi, Hisakazu ; Huttunen, Heikki ; Ho, Yo Sung ; Shin, Jaeho. / **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.
- Rui, Rafael ; Ardeshiri, Tohid ; Nurminen, Henri ; Bazanella, Alexandre ; Gustafsson, Fredrik. / **State Estimation for a Class of Piecewise Affine State-Space Models**. Julkaisussa: IEEE Signal Processing Letters. 2017 ; Vuosikerta 24, Nro 1. Sivut 61-65.
- Blattner, Timothy ; Keyrouz, Walid ; Bhattacharyya, Shuvra S. ; Halem, Milton ; Brady, Mary. / **A Hybrid Task Graph Scheduler for High Performance Image Processing Workflows**. Julkaisussa: Journal of Signal Processing Systems. 2017 ; Vuosikerta 89, Nro 3. Sivut 457-467.
- Barford, Lee ; Bhattacharyya, Shuvra S. ; Liu, Yanzhou. / **Data Flow Algorithms for Processors with Vector Extensions : Handling Actors With Internal State**. Julkaisussa: Journal of Signal Processing Systems. 2017 ; Vuosikerta 87, Nro 1. Sivut 21-31.
- Komar, M. S. / **Data Rate Assessment on L2-L3 CPU Bus and Bus between CPU and RAM in Modern CPUs**. Julkaisussa: Automatic Control and Computer Sciences. 2017 ; Vuosikerta 51, Nro 7. Sivut 701-708.
- Boutellier, J. ; Nyländen, T. / **Design Flow for GPU and Multicore Execution of Dynamic Dataflow Programs**. Julkaisussa: Journal of Signal Processing Systems. 2017 ; Vuosikerta 89, Nro 3. Sivut 469-478.
- Kim, Scott C. ; Bhattacharyya, Shuvra S. / **Implementation of a Multirate Resampler for Multi-carrier Systems on GPUs**. Julkaisussa: Journal of Signal Processing Systems. 2017 ; Vuosikerta 89, Nro 3. Sivut 445-455.
- Helin, Petri ; Astola, Pekka ; Rao, Bhaskar ; Tabus, Ioan. / **Minimum description length sparse modeling and region merging for lossless plenoptic image compression**. Julkaisussa: IEEE Journal on Selected Topics in Signal Processing. 2017 ; Vuosikerta 11, Nro 7.
- Rusu, Corneliu ; Astola, Jaakko. / **On the existence of the solution for one-dimensional discrete phase retrieval problem**. Julkaisussa: Signal, Image and Video Processing. 2017 ; Vuosikerta 11, Nro 2. Sivut 195-202.
- Li, Kaipeng ; Ghazi, Amanullah ; Tarver, Chance ; Boutellier, Jani ; Abdelaziz, Mahmoud ; Anttila, Lauri ; Juntti, Markku ; Valkama, Mikko ; Cavallaro, Joseph R. / **Parallel Digital Predistortion Design on Mobile GPU and Embedded Multicore CPU for Mobile Transmitters**. Julkaisussa: Journal of Signal Processing Systems. 2017 ; Vuosikerta 89, Nro 3. Sivut 417-430.

Pelcat, Maxime ; Desnos, Karol ; Maggiani, Luca ; Liu, Yanzhou ; Heulot, Julien ; Nezan, Jean François ; Bhattacharyya, Shuvra S. / **Models of architecture : Reproducible efficiency evaluation for signal processing systems**. IEEE International Workshop on Signal Processing Systems, SiPS 2016. IEEE, 2016. Sivut 121-126 (IEEE International Workshop on Signal Processing Systems).

Ben Salem, Haifa ; Damarla, Thyagaraju ; Sudusinghe, Kishan ; Stechele, Walter ; Bhattacharyya, Shuvra S. / **Adaptive tracking of people and vehicles using mobile platforms**. Julkaisussa: Eurasip Journal on Advances in Signal Processing. 2016 ; Vuosikerta 2016, Nro 1.

Barker, Tom ; Virtanen, Tuomas. / **Blind Separation of Audio Mixtures Through Nonnegative Tensor Factorization of Modulation Spectrograms**. Julkaisussa: Ieee-Acm transactions on audio speech and language processing. 2016 ; Vuosikerta 24, Nro 12. Sivut 2377-2389.

Pearson, Ronald K. ; Neuvo, Yrjö ; Astola, Jaakko ; Gabbouj, Moncef. / **Generalized Hampel Filters**. Julkaisussa: Eurasip Journal on Advances in Signal Processing. 2016 ; Vuosikerta 2016, Nro 1.

Nanni, Loris ; Lumini, Alessandra ; dos Santos, Florentino Luciano Caetano ; Paci, Michelangelo ; Hyttinen, Jari. / **Ensembles of dense and dense sampling descriptors for the HEp-2 cells classification problem**. Julkaisussa: Pattern Recognition Letters. 2016 ; Vuosikerta 82. Sivut 28-35.

Hirvola, Ossi ; Viitanen, Timo ; Sintunata, Vicky ; Aoki, Terumasa. / **Improved image quality in fast inpainting with omnidirectional filling**. International Conference on Image, Vision and Computing (ICIVC). IEEE, 2016. Sivut 31-35

Rasku, Jyrki ; Ojala, Marisa ; Pölonen, Risto Pekka ; Joutsijoki, Henry ; Gizatdinova, Yulia ; Laurikkala, Jorma ; Kartasalo, Kimmo ; Aalto-Setälä, Katriina ; Juhola, Martti. / **A software tool for studying the size and shape of human cardiomyocytes**. Julkaisussa: Biomedical Signal Processing and Control. 2016 ; Vuosikerta 30. Sivut 134-139.

Zhu, Shuyuan ; Zeng, Bing ; Zeng, Liaoyuan ; Gabbouj, Moncef. / **Image interpolation based on non-local geometric similarities and directional gradients**. Julkaisussa: IEEE Transactions on Multimedia. 2016 ; Vuosikerta 18, Nro 9. Sivut 1707-1719.

Iosifidis, Alexandros ; Gabbouj, Moncef. / **Nyström-based approximate kernel subspace learning**. Julkaisussa: Pattern Recognition. 2016 ; Sivut 190-197.

Tanskanen, Jarno M.A. ; Kapucu, Fikret E. ; Välikki, Inkeri ; Hyttinen, Jari A.K. / **Automatic objective thresholding to detect neuronal action potentials**. Proceedings of 2016 24th European Signal Processing Conference (EUSIPCO). 2016. Sivut 662-666

Razavi, Alireza ; Valkama, Mikko ; Cabric, Danijela. / **Compressive Detection of Random Subspace Signals**. Julkaisussa: IEEE Transactions on Signal Processing. 2016 ; Vuosikerta 64, Nro 16. Sivut 4166-4179.

Azzari, Lucio ; Foi, Alessandro. / **Variance Stabilization for Noisy+Estimate Combination in Iterative Poisson Denoising**. Julkaisussa: IEEE Signal Processing Letters. 2016 ; Vuosikerta 23, Nro 8. Sivut 1086-1090.

Yli-Kaakinen, Juha ; Renfors, Markku. / **Optimization of Flexible Filter Banks Based on Fast Convolution**. Julkaisussa: Journal of Signal Processing Systems. 2016 ; Vuosikerta 85, Nro 1. Sivut 101-111.

Mehta, Rakesh ; Egiazarian, Karen. / **Rotation Invariant Texture Description Using Symmetric Dense Microblock Difference**. Julkaisussa: IEEE Signal Processing Letters. 2016 ; Vuosikerta 23, Nro 6. Sivut 833-837.

Patrona, Foteini ; Iosifidis, Alexandros ; Tefas, Anastasios ; Nikolaidis, Nikolaos ; Pitas, Ioannis. / **Visual Voice Activity Detection in the Wild**. Julkaisussa: IEEE Transactions on Multimedia. 2016 ; Vuosikerta 18, Nro 6. Sivut 967-977.

Daniel, Ondrej ; Raasakka, Jussi ; Peltola, Pekka ; Fröhle, Markus ; Rivero-Rodriguez, Alejandro ; Wymeersch, Henk ; Nurmi, Jari. / **Blind sub-Nyquist GNSS signal detection**. 2016 IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP) . IEEE, 2016. Sivut 6575-6579

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. Sivut 4408-4412

Iosifidis, Alexandros ; Gabbouj, Moncef. / **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. Sivut 2584-2588

Kim, Scott C. ; Bhattacharyya, Shuvra S. / **A Wideband Front-End Receiver Implementation on GPUs**. Julkaisussa: IEEE Transactions on Signal Processing. 2016 ; Vuosikerta 64, Nro 10. Sivut 2602-2612.

Mäkitalo, Niko ; Aaltonen, Timo ; Mikkonen, Tommi. / **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. Sivut 179-188

Lehtomäki, Janne J. ; Bicen, A. Ozan ; Akyildiz, Ian F. / **Statistical analysis of interference for nanoscale electromechanical wireless communication at VHF-band**. Julkaisussa: IEEE Transactions on Signal Processing. 2016 ; Vuosikerta 64, Nro 8. Sivut 2040-2050.

Rubel, Oleksii ; Lukin, Vladimir ; Egiazarian, Karen. / **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. Sivut 750-754

Park, Youngsun ; Alam, Md Hijbul ; Ryu, Woo Jong ; Lee, Sangkeun. / **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. Sivut 83-88

Vaz, Pedro ; Pereira, Tânia ; Figueiras, Edite ; Correia, Carlos ; Humeau-Heurtier, Anne ; Cardoso, João. / **Which wavelength is the best for arterial pulse waveform extraction using laser speckle imaging?**. Julkaisussa: Biomedical Signal Processing and Control. 2016 ; Vuosikerta 25. Sivut 188-195.

Allen, Markus ; Marttila, Jaakko ; Valkama, Mikko ; Singh, Simran ; Epp, Michael ; Schlecker, Wolfgang. / **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. Sivut 1361-1368

Habib, Muhammad ; Rasheed, Saqib ; Hussain, Ayyaz ; Ali, Mubashir. / **Random Value Impulse Noise Removal Based on Most Similar Neighbors**. 2015 13th International Conference on Frontiers of Information Technology (FIT) . IEEE, 2016. Sivut 329-333

Balandina, Ekaterina ; Balandin, Sergey ; Koucheryavy, Yevgeni ; Mouromtsev, Dmitry. / **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. Sivut 752-759

Balasubramaniam, Sasitharan ; Jornet, Josep Miquel ; Pierobon, Massimiliano ; Koucheryavy, Yevgeni. / **Guest editorial special issue on the internet of nano things**. Julkaisussa: IEEE Internet of Things Journal. 2016 ; Vuosikerta 3, Nro 1. Sivut 1-3.

Mahlamäki, Katrine ; Niemi, Arto ; Jokinen, Juuso ; Borgman, Jukka. / **Importance of maintenance data quality in extended warranty simulation**. Julkaisussa: International Journal of COMADEM. 2016 ; Vuosikerta 19, Nro 1. Sivut 3-10.

Davidson, P. ; Raunio, J. P. ; Piché, R. / **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. Sivut 249-257

Davidson, P. ; Merkulova, I. / **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. Sivut 560-562

Mehta, Rakesh ; Egiazarian, Karen. / **Dominant Rotated Local Binary Patterns (DRLBP) for texture classification**. Julkaisussa: Pattern Recognition Letters. 2016 ; Vuosikerta 71. Sivut 16-22.

Rubel, Oleksii ; Lukin, Vladimir ; Abramov, Sergey ; Vozel, Benoit ; Egiazarian, Karen ; Pogrebnyak, Oleksiy. / **Efficiency of texture image filtering and its prediction**. Julkaisussa: Signal, Image and Video Processing. 2016 ; Vuosikerta 10, Nro 8. Sivut 1543-1550.

Aghababaeetafreshi, Mona ; Lehtonen, Lasse K. ; Levanen, Toni ; Valkama, Mikko ; Takala, Jarmo. / **IEEE 802.11ac MIMO Transceiver Baseband Processing on a VLIW Processor**. Julkaisussa: Journal of Signal Processing Systems. 2016.

Chukhman, Ilya ; Jiao, Yang ; Salem, Haifa Ben ; Bhattacharyya, Shuvra S. / **Instrumentation-Driven Validation of Dataflow Applications**. Julkaisussa: Journal of Signal Processing Systems. 2016 ; Vuosikerta 84, Nro 3. Sivut 383-397.

Piché, Robert. / **Online tests of Kalman filter consistency**. Julkaisussa: International Journal of Adaptive Control and Signal Processing. 2016 ; Vuosikerta 30, Nro 1. Sivut 115-124.

Multanen, Joonas ; Kultala, Heikki ; Koskela, Matias ; Viitanen, Timo ; Jääskeläinen, Pekka ; Takala, Jarmo ; Danielyan, Aram ; Cruz, Cristóvão. / **OpenCL Programmable Exposed Datapath High Performance Low-Power Image Signal Processor**. 2016 IEEE Nordic Circuits and Systems Conference (NORCAS). IEEE, 2016.

Zemliachenko, Alexander ; Lukin, Vladimir ; Ponomarenko, Nikolay ; Egiazarian, Karen ; Astola, Jaakko. / **Still image/video frame lossy compression providing a desired visual quality**. Julkaisussa: Multidimensional Systems and Signal Processing . 2016 ; Vuosikerta 27, Nro 3. Sivut 697-718.

Borges, Lucas ; Vieira, Marcelo ; Foi, Alessandro. / **Unbiased Injection of Signal-Dependent Noise in Variance-Stabilized Range**. Julkaisussa: IEEE Signal Processing Letters. 2016 ; Vuosikerta 23, Nro 10. Sivut 1494-1498.

Sarjanoja, Sampsa ; Boutellier, Jani ; Hannuksela, Jari. / **BM3D image denoising using heterogeneous computing platforms**. DASIP 2015 - Proceedings of the 2015 Conference on Design and Architectures for Signal and Image Processing. Vuosikerta 2015-December IEEE COMPUTER SOCIETY PRESS, 2015.

Larjo, Antti ; Lähdesmäki, Harri. / **Using multi-step proposal distribution for improved MCMC convergence in Bayesian network structure learning**. Julkaisussa: Eurasip Journal on Bioinformatics and Systems Biology. 2015 ; Vuosikerta 2015, Nro 1.

Dai, Cui-Qin ; Li, Fu-Jia ; Renfors, Markku. / **Energy cooperation for throughput optimization based on save-then-transmit protocol in wireless communication system**. Julkaisussa: Eurasip Journal on Wireless Communications and Networking. 2015 ; Vuosikerta 2015, Nro 1.

Riabchenko, Ekaterina ; Kämäräinen, Joni-Kristian. / **Generative part-based Gabor object detector**. Julkaisussa: Pattern Recognition Letters. 2015 ; Vuosikerta 68, Nro P1. Sivut 1-8.

Acimovic, Jugoslava ; Mäki-Marttunen, Tuomo Mikael ; Linne, Marja-Leena. / **Whole-cell morphological properties of neurons constrain the nonrandom features of network connectivity**. 24th Annual Computational Neuroscience Meeting: CNS*2015. Toimittaja / Gennady Cymbalyuk ; Anthony Burkitt. Vuosikerta 16 (Suppl 1) Prague : BioMed Central, 2015.

Sivut P:07

Raitoharju, Matti ; Ali-Löytty, Simo ; Piché, Robert. / **Binomial Gaussian mixture filter**. Julkaisussa: Eurasip Journal on Advances in Signal Processing. 2015 ; Vuosikerta 2015, Nro 1.

Boutellier, J. ; Nyländen, T. / **Programming graphics processing units in the RVC-CAL dataflow language**. Electronic Proceedings of the 2015 IEEE International Workshop on Signal Processing Systems, SiPS 2015. Vuosikerta 2015-December Institute of Electrical and Electronics Engineers Inc., 2015.

Martino, L. ; Yang, H. ; Luengo, D. ; Kanninen, J. ; Corander, J. / **A fast universal self-tuned sampler within Gibbs sampling**. Julkaisussa: Digital Signal Processing. 2015 ; Vuosikerta 47. Sivut 68-83.

Raitoharju, Matti ; Nurminen, Henri ; Piché, Robert. / **Kalman filter with a linear state model for PDR+WLAN positioning and its application to assisting a particle filter**. Julkaisussa: Eurasip Journal on Advances in Signal Processing. 2015 ; Vuosikerta 2015, Nro 1.

Diaz, Isael ; Wilhelmsson, Leif R. ; Sofotasios, Paschalis C. ; Miao, Yun ; Tan, Siyu ; Edfors, Ove ; Öwall, Viktor. / **A New Approach to Sign-Bit-Based Parameter Estimation in OFDM Receivers**. Julkaisussa: Circuits, Systems and Signal Processing. 2015 ; Vuosikerta 34, Nro 11. Sivut 3631-3660.

Irofti, Paul ; Dumitrescu, Bogdan. / **Cospase 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. Sivut 343-347

Baby, Deepak ; Virtanen, Tuomas ; Gemmeke, Jort F. ; Van hamme, Hugo. / **Coupled dictionaries for exemplar-based speech enhancement and automatic speech recognition**. Julkaisussa: Ieee-Acm transactions on audio speech and language processing. 2015 ; Vuosikerta 23, Nro 11. Sivut 1788-1799.

Sofotasios, Paschalis C. ; Muhaidat, Sami ; Valkama, Mikko ; Ghogho, Mounir ; Karagiannidis, George K. / **Entropy and Channel Capacity under Optimum Power and Rate Adaptation over Generalized Fading Conditions**. Julkaisussa: IEEE Signal Processing Letters. 2015 ; Vuosikerta 22, Nro 11. Sivut 2162-2166.

Nurminen, Henri ; Ardeshiri, Tohid ; Piché, Robert ; Gustafsson, Fredrik. / **Robust Inference for State-Space Models with Skewed Measurement Noise**. Julkaisussa: IEEE Signal Processing Letters. 2015 ; Vuosikerta 22, Nro 11. Sivut 1898-1902.

Iosifidis, Alexandros ; Tefas, Anastasios ; Pitas, Ioannis. / **Sparse extreme learning machine classifier exploiting intrinsic graphs**. Julkaisussa: Pattern Recognition Letters. 2015 ; Vuosikerta 65. Sivut 192-196.

Huttunen, Heikki ; Tohka, Jussi. / **Model selection for linear classifiers using Bayesian error estimation**. Julkaisussa: Pattern Recognition. 2015 ; Vuosikerta 48, Nro 11. Sivut 3739-3748.

Sikiö, Minna ; Holli-Helenius, Kirsi K. ; Ryymin, Pertti ; Dastidar, Prasun ; Eskola, Hannu ; Harrison, Lara. / **The effect of region of interest size on textural parameters**. 2015 9th International Symposium on Image and Signal Processing and Analysis (ISPA) . IEEE, 2015. Sivut 149-153

Sofotasios, Paschalis C. ; Muhaidat, Sami ; Karagiannidis, George K. ; Sharif, Bayan S. / **Solutions to integrals involving the marcum Q-function and applications**. Julkaisussa: IEEE Signal Processing Letters. 2015 ; Vuosikerta 22, Nro 10. Sivut 1752-1756.

Akar, Gozde B. ; Gotchev, Atanas. / **MOBILE3DTV : Content delivery optimization over DVB-H system**. SMPTE International Conference on Stereoscopic 3D for Media and Entertainment. SMPTE, 2015.

Rusu, Corneliu ; Astola, Jaakko. / **The extended one-dimensional discrete phase retrieval problem**. 2015 International Symposium on Signals, Circuits and Systems (ISSCS). IEEE, 2015.

Azzari, Lucio ; Foi, Alessandro. / **Collaborative filtering based on group coordinates for smoothing and directional sharpening**. ICASSP, IEEE International Conference on Acoustics, Speech and Signal Processing - Proceedings. IEEE, 2015. Sivut 1573-1577

Iosifidis, Alexandros ; Tefas, Anastasios ; Pitas, Ioannis. / **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. Sivut 1926-1930

Baby, Deepak ; Gemmeke, Jort F. ; Virtanen, Tuomas ; Van Hamme, Hugo. / **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. Sivut 4485-4489

Mygdalis, Vasileios ; Iosifidis, Alexandros ; Tefas, Anastasios ; Pitas, Ioannis. / **Exploiting subclass information in one-class support vector machine for video summarization**. ICASSP, IEEE International Conference on Acoustics, Speech and Signal Processing - Proceedings. Vuosikerta 2015-August The Institute of Electrical and Electronics Engineers, Inc., 2015. Sivut 2259-2263

Dumitrescu, Bogdan ; Rusu, Cristian ; Tabus, Ioan ; Astola, Jaakko. / **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. Sivut 2794-2798

Barker, Thomas ; Virtanen, Tuomas ; Pontoppidan, Niels Henrik. / **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. Sivut 241-245

Hurmalainen, Antti ; Saeidi, Rahim ; Virtanen, Tuomas. / **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. Sivut 4425-4429

Onose, Alexandru ; Dumitrescu, Bogdan. / **Adaptive Randomized Coordinate Descent for Sparse Systems : Lasso and Greedy Algorithms**. Julkaisussa: IEEE Transactions on Signal Processing. 2015 ; Vuosikerta 63, Nro 15. Sivut 4091-4101.

Kimionis, John ; Georgiadis, Apostolos ; Isakov, Michael ; Qi, Hang J. ; Tentzeris, Manos M. / **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.

Mariotti, Chiara ; Cook, Benjamin S. ; Alimenti, Federico ; Roselli, Luca ; Tentzeris, Manos M. / **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.

Kim, Sangkil ; Bito, Jo ; Jeong, Soyeon ; Georgiadis, Apostolos ; Tentzeris, Manos M. / **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.

Bito, Jo ; Hester, Jimmy G. ; Tentzeris, Manos M. / **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.

Zhu, Shuyuan ; Zeng, Bing ; Gabbouj, Moncef. / **Adaptive sampling for compressed sensing based image compression**. Julkaisussa: Journal of Visual Communication and Image Representation. 2015 ; Vuosikerta 30. Sivut 94-105.

Schiopu, Ionut ; Tabus, Ioan. / **Lossy-to-lossless progressive coding of depth-maps**. International Symposium on Signals, Circuits and Systems (ISSCS). Iasi, Romania, 2015. Sivut 1 - 4

Boutellier, Jani ; Ersfolk, Johan ; Lilius, Johan ; Mattavelli, Marco ; Roquier, Ghislain ; Silvén, Olli. / **Actor Merging for Dataflow Process Networks**. Julkaisussa: IEEE Transactions on Signal Processing. 2015 ; Vuosikerta 63, Nro 10. Sivut 2496-2508.

Zaki, George ; Plishker, William ; Bhattacharyya, Shuvra S. ; Fruth, Frank. / **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. Vuosikerta 2015-April IEEE COMPUTER SOCIETY PRESS, 2015. Sivut 385-392

Rebeiz, Eric ; Hagh Ghadam, Ali Shahed ; Valkama, Mikko ; Cabric, Danijela. / **Spectrum Sensing under RF Non-Linearities : Performance Analysis and DSP-Enhanced Receivers**. Julkaisussa: IEEE Transactions on Signal Processing. 2015 ; Vuosikerta 63, Nro 8. Sivut 1950-1964.

Höynälänmaa, Tommi. / **Multiresolution analysis for compactly supported interpolating tensor product wavelets**. Julkaisussa: International Journal of Wavelets Multiresolution and Information Processing. 2015 ; Vuosikerta 13, Nro 2.

Iosifidis, Alexandros ; Tefas, Anastastios ; Pitas, Ioannis. / **On the kernel Extreme Learning Machine classifier**. Julkaisussa: Pattern Recognition Letters. 2015 ; Vuosikerta 54. Sivut 11-17.

Hukkanen, Jenni ; Astola, Pekka ; Tabus, Ioan. / **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.

Joutsijoki, Henry ; Rasku, Jyrki ; Haponen, Markus ; Baldin, Ivan ; Gizatdinova, Yulia ; Paci, Michelangelo ; Saarikoski, Jyri ; Varpa, Kirsi ; Siirtola, Harri ; Ávalos-Salguero, Jorge ; Iltanen, Kati ; Laurikkala, Jorma ; Penttinen, Kirsi ; Hyttinen, Jari ; Aalto-Setälä, Katriina ; Juhola, Martti. / **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. Sivut 86-92

Ponomarenko, Nikolay ; Jin, Lina ; Ieremeiev, Oleg ; Lukin, Vladimir ; Egiazarian, Karen ; Astola, Jaakko ; Vozel, Benoit ; Chehdi, Kacem ; Carli, Marco ; Battisti, Federica ; Jay Kuo, C. C. / **Image database TID2013 : Peculiarities, results and perspectives**. Julkaisussa: Signal Processing: Image Communication. 2015 ; Vuosikerta 30. Sivut 57-77.

Efimushkina, T. ; Gabbouj, M. ; Samuylov, K. / **Analytical model in discrete time for cross-layer video communication over LTE**. Julkaisussa: Automatic Control and Computer Sciences. 2015 ; Vuosikerta 48, Nro 6. Sivut 345-357.

Singh, Simran ; Valkama, Mikko ; Epp, Michael ; Anttila, Lauri ; Schlecker, Wolfgang ; Ingber, Elmar. / **Digital correction of frequency response mismatches in 2-channel time-interleaved ADCs using adaptive I/Q signal processing**. Julkaisussa: Analog Integrated Circuits and Signal Processing. 2015 ; Vuosikerta 82, Nro 3. Sivut 543-555.

Şimşekli, Umut ; Virtanen, Tuomas ; Cemgil, Ali Taylan. / **Non-negative tensor factorization models for Bayesian audio processing**. Julkaisussa: Digital Signal Processing. 2015 ; Vuosikerta 47. Sivut 178-191.

Galinina, Olga ; Mikhaylov, Konstantin ; Andreev, Sergey ; Turlikov, Andrey ; Koucheryavy, Yevgeni. / **Smart home gateway system over Bluetooth low energy with wireless energy transfer capability**. Julkaisussa: Eurasip Journal on Wireless Communications and Networking. 2015 ; Vuosikerta 2015, Nro 1.

Dricot, Antoine ; Jung, Joel ; Cagnazzo, Marco ; Pesquet, Béatrice ; Dufaux, Frédéric ; Kovács, Péter ; Adhikarla, Vamsi Kiran. / **Subjective evaluation of Super Multi-View compressed contents on high-end light-field 3D displays**. Julkaisussa: Signal Processing: Image Communication. 2015 ; Vuosikerta 39, Nro Part B. Sivut 369-385.

Iosifidis, Alexandros ; Tefas, Anastasios ; Pitas, Ioannis. / **Class-Specific Reference Discriminant Analysis With Application in Human Behavior Analysis**. Julkaisussa: IEEE Transactions on Human-Machine Systems. 2014 ; Vuosikerta 45, Nro 3. Sivut 315-326.

Irofti, Paul ; Dumitrescu, Bogdan. / **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. Sivut 271-275

Iosifidis, Alexandros ; Tefas, Anastasios ; Nikolaidis, Nikos ; Pitas, Ioannis. / **Human action recognition in stereoscopic videos based on bag of features and disparity pyramids**. European Signal Processing Conference. European Signal Processing Conference, EUSIPCO, 2014. Sivut 1317-1321

Iosifidis, Alexandros ; Tefas, Anastasios ; Pitas, Ioannis. / **Discriminant Bag of Words based representation for human action recognition**. Julkaisussa: Pattern Recognition Letters. 2014 ; Vuosikerta 49. Sivut 185-192.

Iosifidis, Alexandros ; Tefas, Anastasios ; Pitas, Ioannis. / **Kernel reference discriminant analysis**. Julkaisussa: Pattern Recognition Letters. 2014 ; Vuosikerta 49. Sivut 85-91.

De Wit, J. J M ; Harmanny, R. I A ; Molchanov, P. / **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.

Hu, Sudeng ; Jin, Lina ; Kuo, C.-C. Jay. / **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.

Barford, Lee ; Bhattacharyya, Shuvra S. ; Liu, Yanzhou. / **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. Sivut 20-24

Heulot, Julien ; Pelcat, Maxime ; Nezan, Jean Francois ; Oliva, Yaset ; Aridhi, Slaheddine ; Bhattacharyya, Shuvra S. / **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. Sivut 25-29

Lee, Chang Shen ; Chen, Wei Chong ; Bhattacharyya, Shuvra S. ; Lee, Ta Sung. / **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.

Michalakis, Antonis ; Komninos, Nikos. / **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.

Ozan, Ezgi Can ; Tankiz, Seda ; Acar, Banu Oskay ; Ciloglu, Tolga. / **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. Sivut 640-643

Bhattacharyya, Shuvra S. ; Van Der Schaar, Mihaela ; Atan, Onur ; Tekin, Cem ; Sudusinghe, Kishan. / **Data-driven stream mining systems for computer vision**. Advances in Computer Vision and Pattern Recognition. Vuosikerta 68 SPRINGER-VERLAG LONDON LTD, 2014. Sivut 249-264 (Advances in Computer Vision and Pattern Recognition).

Korpi, Dani ; Anttila, Lauri ; Valkama, Mikko. / **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. Sivut 975-982

Kim, Scott C. ; Bhattacharyya, Shuvra S. / **Implementation of a high-throughput low-latency polyphase channelizer on GPUs Design and Architectures for Signal and Image Processing 2008**. Julkaisussa: Eurasip Journal on Advances in Signal Processing. 2014 ; Vuosikerta 2014, Nro 1.

Iosifidis, Alexandros ; Tefas, Anastasios ; Pitas, Ioannis. / **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. Sivut 5427-5431

Kovács, Peter ; Samiee, Kaveh ; Gabbouj, Moncef. / **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. Piscataway : IEEE, 2014. Sivut 5839-5843 (IEEE International Conference on Acoustics, Speech and Signal Processing).

Yviquel, Hervé ; Boutellier, Jani ; Raulet, Mickaël ; Casseau, Emmanuel. / **Automated design of networks of transport-triggered architecture processors using dynamic dataflow programs**. Julkaisussa: Signal Processing: Image Communication. 2013 ; Vuosikerta 28, Nro 10. Sivut 1295-1302.

Boutellier, Jani ; Silvén, Olli. / **Towards generic embedded multiprocessing for RVC-CAL dataflow programs**. Julkaisussa: Journal of Signal Processing Systems. 2013 ; Vuosikerta 73, Nro 2. Sivut 137-142.

Cho, Inkeun ; Shen, Chung Ching ; Tachwali, Yahia ; Hsu, Chia Jui ; Bhattacharyya, Shuvra S. / **Configurable, resource-optimized FFT architecture for OFDM communication**. 2013 IEEE International Conference on Acoustics, Speech, and Signal Processing, ICASSP 2013 - Proceedings. 2013. Sivut 2746-2750

Hautala, Ilkka ; Boutellier, Jani ; Hannuksela, Jari. / **Programmable lowpower implementation of the HEVC Adaptive Loop Filter**. 2013 IEEE International Conference on Acoustics, Speech, and Signal Processing, ICASSP 2013 - Proceedings. 2013. Sivut 2664-2668

Yi, Xiaohua ; Cho, Chunhee ; Cooper, James ; Wang, Yang ; Tentzeris, Manos M. ; Leon, Roberto T. / **Passive wireless antenna sensor for strain and crack sensing - Electromagnetic modeling, simulation, and testing**. Julkaisussa: Smart Materials and Structures. 2013 ; Vuosikerta 22, Nro 8.

Mäki-Marttunen, Tuomo Mikael ; Acimovic, Jugoslava ; Ruohonen, Keijo Pellervo ; Linne, Marja-Leena. / **On the effect of network structure and synaptic mechanisms on sustained bursting activity**. Twenty Second Annual Computational Neuroscience Meeting: CNS*2013. Toimittaja / Gennady Cymbalyuk ; Astrid Prinz. Vuosikerta Volume 14 Suppl 1 Paris, France : BioMed Central, 2013. Sivut P247

Iosifidis, Alexandros ; Tefas, Anastasios ; Pitas, Ioannis. / **Multi-view action recognition based on action volumes, fuzzy distances and cluster discriminant analysis**. Julkaisussa: Signal Processing. 2013 ; Vuosikerta 93, Nro 6. Sivut 1445-1457.

Zaki, George F. ; Plishker, William ; Bhattacharyya, Shuvra S. ; Clancy, Charles ; Kuykendall, John. / **Integration of dataflow-based heterogeneous multiprocessor scheduling techniques in GNU radio**. Julkaisussa: Journal of Signal Processing Systems. 2013 ; Vuosikerta 70, Nro 2. Sivut 177-191.

Kim, Scott C. ; Plishker, William L. ; Bhattacharyya, Shuvra S. / **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. Sivut 231-238

Betrouni, N. ; Colin, P. ; Puech, P. ; Villers, A. ; Mordon, S. / **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. Sivut 370-373

Cho, Inkeun ; Sudusinghe, Kishan ; Shen, Chung Ching ; McGee, Jonathan ; Bhattacharyya, Shuvra. / **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. Sivut 1436-1441

Boutellier, Jani ; Raulet, Mickaël ; Silvén, Olli. / **Automatic hierarchical discovery of quasi-static schedules of RVC-CAL dataflow programs**. Julkaisussa: Journal of Signal Processing Systems. 2013 ; Vuosikerta 71, Nro 1. Sivut 35-40.

Kong, Lingjia ; Aho, Kaisa Leena ; Granberg, Kirsi ; Roos, Christophe ; Autio, Reija. / **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. Sivut 92-93

Casale-Brunet, S. ; Bezati, E. ; Alberti, C. ; Roquier, G. ; Mattavelli, M. ; Janneck, J. W. ; Boutellier, J. / **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. Sivut 341-342

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

Iosifidis, Alexandros ; Tefas, Anastasios ; Pitas, Ioannis. / **Dynamic action recognition based on dynemes and Extreme Learning Machine**. Julkaisussa: Pattern Recognition Letters. 2013 ; Vuosikerta 34, Nro 15. Sivut 1890-1898.

Boutellier, J. ; Ghazi, A. ; Silvén, O. ; Ersfolk, J. / **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. Sivut 360-365

Peltonen, Jaakko ; Lin, Ziyuan. / **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.

Iosifidis, Alexandros ; Tefas, Anastasios ; Pitas, Ioannis. / **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. Sivut 522-525

Wang, Lai Huei ; Shen, Chung Ching ; Bhattacharyya, Shuvra S. / **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. Sivut 1-6

Wang, Lai Huei ; Shen, Chung Ching ; Wu, Shenpei ; Bhattacharyya, Shuvra S. / **Parameterized scheduling of topological patterns in signal processing dataflow graphs**. Julkaisussa: Journal of Signal Processing Systems. 2013 ; Vuosikerta 71, Nro 3. Sivut 275-286.

Ghazi, Amanullah ; Boutellier, Jani ; Hannuksela, Jari ; Shahabuddin, Shahriar ; Silvén, Olli. / **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. Sivut 231-236

Efimushkina, T. ; Egiazarian, K. ; Gabbouj, M. / **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. University of Paris 13, 2013. Sivut 94-99 (European Workshop on Visual Information Processing).

Iosifidis, Alexandros ; Tefas, Anastasios ; Pitas, Ioannis. / **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. Sivut 526-529

Boutellier, Jani ; Lundbom, Ismo ; Janhunen, Janne ; Ylimainen, Jori ; Hannuksela, Jari. / **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. Sivut 82-89

Shen, Chung Ching ; Wu, Shenpei ; Sane, Nimish ; Wu, Hsiang Huang ; Plishker, William ; Bhattacharyya, Shuvra S. / **Design and synthesis for multimedia systems using the targeted dataflow interchange format**. Julkaisussa: IEEE Transactions on Multimedia. 2012 ; Vuosikerta 14, Nro 3 PART1. Sivut 630-640.

Peltonen, Jaakko ; Georgatzis, Konstantinos. / **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.

Kim, Scott C. ; Plishker, William L. ; Bhattacharyya, Shuvra S. ; Cavallaro, Joseph R. / **GPU-based acceleration of symbol timing recovery**. DASIP 2012 - Proceedings of the 2012 Conference on Design and Architectures for Signal and Image Processing. 2012. Sivut 273-280

Kee, Hojin ; Shen, Chung Ching ; Bhattacharyya, Shuvra S. ; Wong, Ian ; Rao, Yong ; Kornerup, Jacob. / **Mapping parameterized cyclo-static dataflow graphs onto configurable hardware**. Julkaisussa: Journal of Signal Processing Systems. 2012 ; Vuosikerta 66, Nro 3. Sivut 285-301.

Wang, Lai Huei ; Shen, Chung Ching ; Seetharaman, Gunasekaran ; Palaniappan, Kannappan ; Bhattacharyya, Shuvra S. / **Multidimensional dataflow graph modeling and mapping for efficient GPU implementation**. Proceedings - 2012 IEEE Workshop on Signal Processing Systems, SiPS 2012. 2012. Sivut 300-305

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

Wu, Shenpei ; Shen, Chung Ching ; Sane, Nimish ; Davis, Kelly ; Bhattacharyya, Shuvra S. / **Parameterized scheduling for signal processing systems using topological patterns**. 2012 IEEE International Conference on Acoustics, Speech, and Signal Processing, ICASSP 2012 - Proceedings. 2012. Sivut 1561-1564

Zhou, Zheng ; Shen, Chung Ching ; Plishker, William ; Wu, Hsiang Huang ; Bhattacharyya, Shuvra S. / **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. Vuosikerta 1 2012. Sivut 402-408

Mäki-Marttunen, Tuomo Mikael ; Acimovic, Jugoslava ; Ruohonen, Keijo Pellervo ; Linne, Marja-Leena. / **Effects of local structure of neuronal networks on spiking activity in silico**. Twentieth Annual Computational Neuroscience Meeting: CNS*2011. Toimittaja / Jean-Marc Fellous ; Astrid Prinz. Vuosikerta 12 (Suppl 1) Stockholm : BioMed Central, 2011. Sivut P202

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 . Tampere : TICSP, 2011. (TICSP Series).

Bhattacharyya, Shuvra S. ; Eker, Johan ; Janneck, Jörn W. ; Lucarz, Christophe ; Mattavelli, Marco ; Raulet, Mickaël. / **Overview of the MPEG reconfigurable video coding framework**. Julkaisussa: Journal of Signal Processing Systems. 2011 ; Vuosikerta 63, Nro 2. Sivut 251-263.

Boutellier, Jani ; Lucarz, Christophe ; Lafond, Sébastien ; Gomez, Victor Martin ; Mattavelli, Marco. / **Quasi-static scheduling of CAL actor networks for reconfigurable video coding**. Julkaisussa: Journal of Signal Processing Systems. 2011 ; Vuosikerta 63, Nro 2. Sivut 191-202.

Mäki-Marttunen, Tuomo ; Acimovic, Jugoslava ; Ruohonen, Keijo ; Linne, Marja-Leena. / **Effects of structure on spontaneous activity in simulated neuronal networks**. Proceedings of Mathematical Neuroscience (ICMS 2011), April 11-13, 2011, Edinburgh, Scotland. 2011.

Gu, Ruirui ; Janneck, Jörn W. ; Raulet, Mickaël ; Bhattacharyya, Shuvra S. / **Exploiting statically schedulable regions in dataflow programs**. Julkaisussa: Journal of Signal Processing Systems. 2011 ; Vuosikerta 63, Nro 1. Sivut 129-142.

Pursiainen, S. ; Sorrentino, A. ; Campi, C. ; Piana, M. / **Forward simulation and inverse dipole localization with the lowest order Raviart - Thomas elements for electroencephalography**. Julkaisussa: Inverse Problems. 2011 ; Vuosikerta 27, Nro 4.

Kaski, Samuel ; Peltonen, Jaakko. / **Dimensionality reduction for data visualization**. Julkaisussa: IEEE Signal Processing Magazine. 2011 ; Vuosikerta 28, Nro 2. Sivut 100-104.

Boutellier, J. ; Silvén, O. ; Raulet, M. / **Automatic synthesis of TTA processor networks from RVC-CAL dataflow programs**. 2011 IEEE Workshop on Signal Processing Systems, SiPS 2011, Proceedings. 2011. Sivut 25-30

Zabrodina, Victoria ; Abramov, Sergey ; Lukin, Vladimir ; Astola, Jaakko ; Vozel, Benoit ; Chehdi, Kacem. / **Blind estimation of mixed noise parameters in images using robust regression curve fitting**. European Signal Processing Conference. 2011. Sivut 1135-1139

Kedilaya, Soujanya ; Plishker, William ; Purkovic, Aleksandar ; Johnson, Brian ; Bhattacharyya, Shuvra S. / **Model-based precision analysis and optimization for digital signal processors**. European Signal Processing Conference. 2011. Sivut 506-510

Bhattacharyya, Shuvra S. ; Plishker, William ; Sane, Nimish ; Shen, Chung Ching ; Wu, Hsiang Huang. / **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. Sivut 449-454

Ivanov, Stepan ; Botvich, Dmitri ; Balasubramaniam, Sasitharan. / **On delay distribution in IEEE 802.11 wireless networks**. 16th IEEE Symposium on Computers and Communications, ISCC'11. 2011. Sivut 254-256

Boutellier, Jani ; Silven, Olli ; Raulet, Mickael. / **Scheduling of CAL actor networks based on dynamic code analysis**. 2011 IEEE International Conference on Acoustics, Speech, and Signal Processing, ICASSP 2011 - Proceedings. 2011. Sivut 1609-1612

Sane, Nimish ; Kee, Hojin ; Seetharaman, Gunasekaran ; Bhattacharyya, Shuvra S. / **Topological patterns for scalable representation and analysis of dataflow graphs**. Julkaisussa: Journal of Signal Processing Systems. 2011 ; Vuosikerta 65, Nro 2. Sivut 229-244.

Zaki, George F. ; Plishker, William ; Bhattacharyya, Shuvra S. ; Clancy, Charles ; Kuykendall, John. / **Vectorization and mapping of software defined radio applications on heterogeneous multi-processor platforms**. 2011 IEEE Workshop on Signal Processing Systems, SiPS 2011, Proceedings. 2011. Sivut 31-36

Acimovic, Jugoslava ; Mäki-Marttunen, Tuomo ; Linne, Marja-Leena. / **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. Sivut 2 p

Acimovic, Jugoslava ; Teppola, Heidi ; Selinummi, Jyrki Juhani ; Linne, Marja-Leena. / **Computational tools for assessing the properties of 2D neural cell cultures**. Eighteenth Annual Computational Neuroscience Meeting: CNS*2009. Toimittaja / Don Johnson. Vuosikerta 10 (Suppl 1) Berlin : BioMed Central, 2009. Sivut P170

Acimovic, Jugoslava. / **Neural networks, cell cultures and some older work on data analysis**. Julkaisun esittämisaika: Okinawa Computational Neuroscience Course 2009, Japani.

Koivuluoma, Mikko ; Barna, Laurentiu ; Koivistoinen, Teemu ; Kööbi, Tiit ; Värr, Alpo. / **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. Sivut 84-89