

Kiranyaz S, Ince T, Abdeljaber O, Avci O, Gabbouj M. 2019. 1-D Convolutional Neural Networks for Signal Processing Applications. teoksessa 2019 IEEE International Conference on Acoustics, Speech, and Signal Processing, ICASSP 2019 - Proceedings. IEEE. Sivut 8360-8364. <https://doi.org/10.1109/ICASSP.2019.8682194>

Schwarz S, Hannuksela MM, Fakour-Sevom V, Sheikhi-Pour N. 2018. 2D Video Coding of Volumetric Video Data. teoksessa 2018 Picture Coding Symposium, PCS 2018 - Proceedings. IEEE. Sivut 61-65. <https://doi.org/10.1109/PCS.2018.8456265>

Curcio IDD, Toukoma H, Naik D. 2018. 360-Degree video streaming and its subjective quality. teoksessa SMPTE 2017 Annual Technical Conference and Exhibition, SMPTE 2017. SMPTE. Sivut 1-23. <https://doi.org/10.5594/M001758>

Kimionis J, Georgiadis A, Isakov M, Qi HJ, Tentzeris MM. 2015. 3D/inkjet-printed origami antennas for multi-direction RF harvesting. teoksessa 2015 IEEE MTT-S International Microwave Symposium, IMS 2015. Institute of Electrical and Electronics Engineers Inc. <https://doi.org/10.1109/MWSYM.2015.7166878>

Tervo O, Levanen T, Pajukoski K, Hulkkonen J, Wainio P, Valkama M. 2020. 5G new radio evolution towards sub-THz communications. teoksessa 2nd 6G Wireless Summit 2020: Gain Edge for the 6G Era, 6G SUMMIT 2020. IEEE. <https://doi.org/10.1109/6GSUMMIT49458.2020.9083807>

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

Mesaros A, Heittola T, Virtanen T. 2018. Acoustic scene classification: An overview of dcase 2017 challenge entries. teoksessa 16th International Workshop on Acoustic Signal Enhancement, IWAENC 2018. IEEE. Sivut 411-415. <https://doi.org/10.1109/IWAENC.2018.8521242>

Boutellier J, Ersfolk J, Lilius J, Mattavelli M, Roquier G, Silvén O. 2015. Actor Merging for Dataflow Process Networks. IEEE Transactions on Signal Processing. 63(10):2496-2508. <https://doi.org/10.1109/TSP.2015.2411229>

Passalis N, Tefas A, Kannianen J, Gabbouj M, Iosifidis A. 2020. Adaptive Normalization for Forecasting Limit Order Book Data Using Convolutional Neural Networks. teoksessa 2020 IEEE International Conference on Acoustics, Speech, and Signal Processing, ICASSP 2020 - Proceedings. IEEE. Sivut 1713-1717. (ICASSP, IEEE International Conference on Acoustics, Speech and Signal Processing - Proceedings). <https://doi.org/10.1109/ICASSP40776.2020.9054321>

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

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

Ben Salem H, Damarla T, Sudusinghe K, Stechele W, Bhattacharyya SS. 2016. Adaptive tracking of people and vehicles using mobile platforms. Eurasip Journal on Advances in Signal Processing. 2016(1). <https://doi.org/10.1186/s13634-016-0356-9>

Mariotti C, Cook BS, Alimenti F, Roselli L, Tentzeris MM. 2015. Additively manufactured multilayer high performance RF passive components on cellulose substrates for internet-of-things electronic circuits. teoksessa 2015 IEEE MTT-S International Microwave Symposium, IMS 2015. Institute of Electrical and Electronics Engineers Inc. <https://doi.org/10.1109/MWSYM.2015.7166924>

Henno J, Jaakkola H, Makela J. 2018. Adjusting university education with workspace training and self-education. teoksessa 2018 41st International Convention on Information and Communication Technology, Electronics and Microelectronics, MIPRO 2018. IEEE. Sivut 701-708. <https://doi.org/10.23919/MIPRO.2018.8400131>

Korpi D, Aghababaeetafreshi M, Piilila M, Anttila L, Valkama M. 2017. Advanced architectures for self-interference cancellation in full-duplex radios: Algorithms and measurements. teoksessa 2016 50th Asilomar Conference on Signals, Systems and Computers. IEEE. Sivut 1553-1557. <https://doi.org/10.1109/ACSSC.2016.7869639>

Martino L, Yang H, Luengo D, Kannianen J, Corander J. 2015. A fast universal self-tuned sampler within Gibbs sampling. *Digital Signal Processing*. 47:68-83. <https://doi.org/10.1016/j.dsp.2015.04.005>

Kim S, Bito J, Jeong S, Georgiadis A, Tentzeris MM. 2015. A flexible hybrid printed RF energy harvester utilizing catalyst-based copper printing technologies for far-field RF energy harvesting applications. teoksessa 2015 IEEE MTT-S International Microwave Symposium, IMS 2015. Institute of Electrical and Electronics Engineers Inc. <https://doi.org/10.1109/MWSYM.2015.7166723>

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

Lee K, Riggan BS, Bhattacharyya SS. 2018. A joint target localization and classification framework for sensor networks. teoksessa 2018 IEEE International Conference on Acoustics, Speech, and Signal Processing, ICASSP 2018 - Proceedings. Institute of Electrical and Electronics Engineers Inc. Sivut 3076-3080. <https://doi.org/10.1109/ICASSP.2018.8462641>

Zhang H, Kiranyaz S, Gabbouj M. 2017. A k-nearest neighbor multilabel ranking algorithm with application to content-based image retrieval. teoksessa 2017 IEEE International Conference on Acoustics, Speech, and Signal Processing, ICASSP 2017 - Proceedings. IEEE. Sivut 2587-2591. <https://doi.org/10.1109/ICASSP.2017.7952624>

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

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

Lee K, Riggan BS, Bhattacharyya SS. 2017. An accumulative fusion architecture for discriminating people and vehicles using acoustic and seismic signals. teoksessa 2017 IEEE International Conference on Acoustics, Speech, and Signal Processing, ICASSP 2017 - Proceedings. IEEE. Sivut 2976-2980. <https://doi.org/10.1109/ICASSP.2017.7952702>

Shuyang Z, Heittola T, Virtanen T. 2018. An active learning method using clustering and committee-based sample selection for sound event classification. teoksessa 16th International Workshop on Acoustic Signal Enhancement, IWAENC 2018. IEEE. Sivut 116-120. <https://doi.org/10.1109/IWAENC.2018.8521336>

Parlin K, Riihonen T. 2020. Analog Mitigation of Frequency-Modulated Interference for Improved GNSS Reception. Nurmi J, Lohan E-S, Torres-Sospedra J, Kuusniemi H, Ometov A, Toimittajat. teoksessa 2020 International Conference on Localization and GNSS, ICL-GNSS 2020 - Proceedings. IEEE. (2020 International Conference on Localization and GNSS, ICL-GNSS 2020 - Proceedings). <https://doi.org/10.1109/ICL-GNSS49876.2020.9115518>

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

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

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

Rajput S, Averbukh M, Yahalom A, Minav T. 2019. An approval of MPPT based on pv cell's simplified equivalent circuit during fast-shading conditions. *Electronics (Switzerland)*. 8(9). <https://doi.org/10.3390/electronics8091060>

Kim SC, Plishker WL, Bhattacharyya SS. 2013. An efficient GPU implementation of an arbitrary resampling polyphase channelizer. teoksessa *DASIP 2013 - Proceedings of the 2013 Conference on Design and Architectures for Signal and Image Processing*. Sivut 231-238.

Diaz I, Wilhelmsson LR, Sofotasios PC, Miao Y, Tan S, Edfors O, Öwall V. 2015. A New Approach to Sign-Bit-Based Parameter Estimation in OFDM Receivers. *Circuits, Systems and Signal Processing*. 34(11):3631-3660. <https://doi.org/10.1007/s00034-015-0025-5>

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

Betrouni N, Colin P, Puech P, Villers A, Mordon S. 2013. An image guided treatment platform for prostate cancer photodynamic therapy. teoksessa *2013 35th Annual International Conference of the IEEE Engineering in Medicine and Biology Society, EMBC 2013*. Sivut 370-373. <https://doi.org/10.1109/EMBC.2013.6609514>

Eslahi N, Foi A. 2018. Anisotropic Spatiotemporal Regularization in Compressive Video Recovery by Adaptively Modeling the Residual Errors as Correlated Noise. teoksessa *2018 IEEE 13th Image, Video, and Multidimensional Signal Processing Workshop, IVMSP 2018 - Proceedings*. IEEE. <https://doi.org/10.1109/IVMSPW.2018.8448455>

Lee K, Riggan BS, Bhattacharyya SS. 2017. An optimized embedded target detection system using acoustic and seismic sensors. teoksessa *25th European Signal Processing Conference, EUSIPCO 2017*. IEEE. Sivut 986-990. <https://doi.org/10.23919/EUSIPCO.2017.8081355>

Ozan EC, Tankiz S, Acar BO, Ciloglu T. 2014. An Unsupervised Audio Segmentation Method Using Bayesian Information Criterion. teoksessa *6th International Symposium on Communications, Control & Signal Processing, ISCCSP, 21-23.5.2014, Athens, Greece*. NEW YORK: IEEE. Sivut 640-643. <https://doi.org/10.1109/ISCCSP.2014.6877956>

Masek P, Stusek M, Zeman K, Mozny R, Ometov A, Hosek J. 2019. A perspective on wireless M-bus for smart electricity grids. Herencsar N, Toimittaja. teoksessa *2019 42nd International Conference on Telecommunications and Signal Processing, TSP 2019*. IEEE. Sivut 730-735. <https://doi.org/10.1109/TSP.2019.8768840>

Boutellier J, Lundbom I, Janhunen J, Ylimäinen J, Hannuksela J. 2012. Application-specific instruction processor for extracting local binary patterns. teoksessa *DASIP 2012 - Proceedings of the 2012 Conference on Design and Architectures for Signal and Image Processing*. Sivut 82-89.

Rasku J, Ojala M, Pölonen RP, Joutsijoki H, Gizatdinova Y, Laurikkala J, Kartasalo K, Aalto-Setälä K, Juhola M. 2016. A software tool for studying the size and shape of human cardiomyocytes. *Biomedical Signal Processing and Control*. 30:134-139. <https://doi.org/10.1016/j.bspc.2016.06.011>

Cho I, Sudusinghe K, Shen CC, McGee J, Bhattacharyya S. 2013. A system-level design approach for dynamic resource coordination and energy optimization in sensor network platforms. teoksessa *Conference Record of the 47th Asilomar Conference on Signals, Systems and Computers*. IEEE COMPUTER SOCIETY PRESS. Sivut 1436-1441. <https://doi.org/10.1109/ACSSC.2013.6810533>

Yviquel H, Boutellier J, Raulet M, Casseau E. 2013. Automated design of networks of transport-triggered architecture processors using dynamic dataflow programs. *Signal Processing: Image Communication*. 28(10):1295-1302. <https://doi.org/10.1016/j.image.2013.08.013>

- Khan MA, Vehmas R, Visa A. 2019. Automatic detection of water inside concrete slabs using ground penetrating radar. teoksessa 2019 IEEE Radar Conference, RadarConf 2019. IEEE. <https://doi.org/10.1109/RADAR.2019.8835797>
- Boutellier J, Raulet M, Silvén O. 2013. Automatic hierarchical discovery of quasi-static schedules of RVC-CAL dataflow programs. *Journal of Signal Processing Systems*. 71(1):35-40. <https://doi.org/10.1007/s11265-012-0676-4>
- Tanskanen JMA, Kapucu FE, Välikki I, Hyttinen JAK. 2016. Automatic objective thresholding to detect neuronal action potentials. teoksessa Proceedings of 2016 24th European Signal Processing Conference (EUSIPCO). Sivut 662-666. <https://doi.org/10.1109/EUSIPCO.2016.7760331>
- Boutellier J, Silvén O, Raulet M. 2011. Automatic synthesis of TTA processor networks from RVC-CAL dataflow programs . teoksessa 2011 IEEE Workshop on Signal Processing Systems, SiPS 2011, Proceedings. Sivut 25-30. <https://doi.org/10.1109/SiPS.2011.6088944>
- Kim SC, Bhattacharyya SS. 2016. A Wideband Front-End Receiver Implementation on GPUs. *IEEE Transactions on Signal Processing*. 64(10):2602-2612. <https://doi.org/10.1109/TSP.2016.2535349>
- Hassan SS, Huttunen H, Niemi J, Tohka J. 2019. Bayesian receiver operating characteristic metric for linear classifiers. *Pattern Recognition Letters*. 128:52-59. <https://doi.org/10.1016/j.patrec.2019.07.016>
- Raitoharju J, Riabchenko E, Ahmad I, Iosifidis A, Gabbouj M, Kiranyaz S, Tirronen V, Ärje J, Kärkkäinen S, Meissner K. 2018. Benchmark database for fine-grained image classification of benthic macroinvertebrates. *Image and Vision Computing*. 78:73-83. <https://doi.org/10.1016/j.imavis.2018.06.005>
- Iosifidis A, Tefas A, Pitas I, Gabbouj M. 2017. Big Media Data Analysis. *Signal Processing: Image Communication*. 59:105-108. <https://doi.org/10.1016/j.image.2017.10.004>
- Drgas S, Virtanen T, Lücke J, Hurmalainen A. 2017. Binary Non-Negative Matrix Deconvolution for Audio Dictionary Learning. *IEEE/ACM Transactions on Audio Speech and Language Processing*. 25(8):1644-1656. <https://doi.org/10.1109/TASLP.2017.2709909>
- Raitoharju M, Ali-Löytty S, Piché R. 2015. Binomial Gaussian mixture filter. *Eurasip Journal on Advances in Signal Processing*. 2015(1). <https://doi.org/10.1186/s13634-015-0221-2>
- Zabrodina V, Abramov S, Lukin V, Astola J, Vozel B, Chehdi K. 2011. Blind estimation of mixed noise parameters in images using robust regression curve fitting. teoksessa European Signal Processing Conference. Sivut 1135-1139.
- Barker T, Virtanen T. 2016. Blind Separation of Audio Mixtures Through Nonnegative Tensor Factorization of Modulation Spectrograms. *IEEE-Acm transactions on audio speech and language processing*. 24(12):2377-2389. <https://doi.org/10.1109/TASLP.2016.2602546>
- Daniel O, Raasakka J, Peltola P, Fröhle M, Rivero-Rodriguez A, Wymeersch H, Nurmi J. 2016. Blind sub-Nyquist GNSS signal detection. teoksessa 2016 IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP) . IEEE. Sivut 6575-6579. <https://doi.org/10.1109/ICASSP.2016.7472944>
- Park Y, Alam MH, Ryu WJ, Lee S. 2016. BL-LDA: Bringing bigram to supervised topic model. teoksessa Proceedings - 2015 International Conference on Computational Science and Computational Intelligence, CSCI 2015. Institute of Electrical and Electronics Engineers Inc. Sivut 83-88. <https://doi.org/10.1109/CSCI.2015.146>
- Sarjanoja S, Boutellier J, Hannuksela J. 2015. BM3D image denoising using heterogeneous computing platforms. teoksessa DASIP 2015 - Proceedings of the 2015 Conference on Design and Architectures for Signal and Image Processing. IEEE COMPUTER SOCIETY PRESS. <https://doi.org/10.1109/DASIP.2015.7367257>

Mahkonen K, Virtanen T, Kämäräinen J. 2018. Cascade of Boolean detector combinations. *Eurasip Journal on Image and Video Processing*. 2018. <https://doi.org/10.1186/s13640-018-0303-9>

Le D, Ukkonen L, Björninen T. 2020. Circularly Polarized Corner-Truncated and Slotted Microstrip Patch Antenna on Textile Substrate for Wearable Passive UHF RFID Tags. teoksessa 14th European Conference on Antennas and Propagation, EuCAP 2020. IEEE. (14th European Conference on Antennas and Propagation, EuCAP 2020). <https://doi.org/10.23919/EuCAP48036.2020.9135984>

Joutsijoki H, Rasku J, Haponen M, Baldin I, Gizatdinova Y, Paci M, Saarikoski J, Varpa K, Siirtola H, Ávalos-Salguero J, Iltanen K, Laurikkala J, Penttinen K, Hyttinen J, Aalto-Setälä K, Juhola M. 2015. Classification of iPSC colony images using hierarchical strategies with support vector machines. teoksessa 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. Sivut 86-92. <https://doi.org/10.1109/CIDM.2014.7008152>

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

Brihuega A, Abdelaziz M, Anttila L, Barneto CB, Valkama M. 2019. Closed-Loop DPD for Digital MIMO Transmitters under Antenna Crosstalk. Matthews MB, Toimittaja. teoksessa Conference Record - 53rd Asilomar Conference on Circuits, Systems and Computers, ACSSC 2019. IEEE Computer Society. Sivut 1682-1689. (Conference Record - Asilomar Conference on Signals, Systems and Computers). <https://doi.org/10.1109/IEEECONF44664.2019.9049001>

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

Murayama M, Oguro D, Kikuchi H, Huttunen H, Ho YS, Shin J. 2017. Color-distribution similarity by information theoretic divergence for color images. teoksessa 2016 Asia-Pacific Signal and Information Processing Association Annual Summit and Conference, APSIPA 2016. IEEE. <https://doi.org/10.1109/APSIPA.2016.7820681>

Sapio AE, Wolf M, Bhattacharyya SS. 2017. Compact modeling and management of reconfiguration in digital channelizer implementation. teoksessa 2016 IEEE Global Conference on Signal and Information Processing, GlobalSIP 2016 - Proceedings. IEEE. Sivut 595-599. <https://doi.org/10.1109/GlobalSIP.2016.7905911>

Gapeyenko M, Petrov V, Moltchanov D, Yeh SP, Himayat N, Andreev S. 2020. Comparing capacity gains of static and UAV-based millimeter-wave relays in clustered deployments. teoksessa 2020 IEEE International Conference on Communications Workshops, ICC Workshops 2020 - Proceedings. IEEE. (IEEE/CIC international conference on communications in China - workshops). <https://doi.org/10.1109/ICCWorkshops49005.2020.9145216>

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

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

Belyaev E, Codreanu M, Juntti M, Egiazarian K. 2020. Compressive sensed video recovery via iterative thresholding with random transforms. *IET Image Processing*. 14(6):1187-1200. <https://doi.org/10.1049/iet-ipr.2019.0661>

Acimovic J, Mäki-Marttunen T, Linne M-L. 2010. Computational modeling of growth in cortical cultures using the NETMORPH simulation tool. teoksessa Neuroscience 2010, 40th Annual Meeting, San Diego, USA, 13-17 November 2010. Sivut 2 p.

- Acimovic J, Teppola H, Selinummi JJ, Linne M-L. 2009. Computational tools for assessing the properties of 2D neural cell cultures. Johnson D, Toimittaja. teoksessa Eighteenth Annual Computational Neuroscience Meeting: CNS*2009. Berlin: BioMed Central. Sivut P170.
- Davidson P, Merkulova I. 2016. Computer vision aided navigation systems. teoksessa 23rd Saint Petersburg International Conference on Integrated Navigation Systems, ICINS 2016 - Proceedings. State Research Center of the Russian Federation. Sivut 560-562.
- Cho I, Shen CC, Tachwali Y, Hsu CJ, Bhattacharyya SS. 2013. Configurable, resource-optimized FFT architecture for OFDM communication. teoksessa 2013 IEEE International Conference on Acoustics, Speech, and Signal Processing, ICASSP 2013 - Proceedings. Sivut 2746-2750. <https://doi.org/10.1109/ICASSP.2013.6638156>
- Nasarre IP, Levanen T, Valkama M. 2020. Constrained PSK: Energy-efficient modulation for Sub-THz systems. teoksessa 2020 IEEE International Conference on Communications Workshops, ICC Workshops 2020 - Proceedings. IEEE. (IEEE/CIC international conference on communications in China - workshops). <https://doi.org/10.1109/ICCWorkshops49005.2020.9145132>
- Rusu C, Astola J. 2017. Convergence analysis of error-reduction algorithm for solving of the extended one-dimensional discrete phase retrieval problem. teoksessa ISSCS 2017 - International Symposium on Signals, Circuits and Systems. IEEE. <https://doi.org/10.1109/ISSCS.2017.8034945>
- Nogues E, Mercat A, Arrestier F, Pelcat M, Menard D. 2019. Convex Energy Optimization of Streaming Applications for MPSoCs. teoksessa 2019 IEEE International Conference on Acoustics, Speech, and Signal Processing, ICASSP 2019 - Proceedings. IEEE. Sivut 1557-1561. <https://doi.org/10.1109/ICASSP.2019.8682317>
- Cai D, Chen K, Qian Y, Kämäräinen J-K. 2019. Convolutional low-resolution fine-grained classification. Pattern Recognition Letters. 119:166-171. <https://doi.org/10.1016/j.patrec.2017.10.020>
- Mäkitalo N, Aaltonen T, Mikkonen T. 2016. Coordinating proactive social devices in a mobile cloud: Lessons learned and a way forward. teoksessa MOBILESoft '16 Proceedings of the International Conference on Mobile Software Engineering and Systems . ACM. Sivut 179-188. <https://doi.org/10.1145/2897073.2897079>
- Irofti P, Dumitrescu B. 2015. Cospase dictionary learning for the orthogonal case. teoksessa 2015 19th International Conference on System Theory, Control and Computing, ICSTCC 2015 - Joint Conference SINTES 19, SACCS 15, SIMSIS 19. IEEE. Sivut 343-347. <https://doi.org/10.1109/ICSTCC.2015.7321317>
- Baby D, Virtanen T, Gemmeke JF, Van hamme H. 2015. Coupled dictionaries for exemplar-based speech enhancement and automatic speech recognition. IEEE-Acm transactions on audio speech and language processing. 23(11):1788-1799. <https://doi.org/10.1109/TASLP.2015.2450491>
- Raitoharju M, Svensson L, Garcia-Fernandez AF, Piche R. 2018. Damped Posterior Linearization Filter. IEEE Signal Processing Letters. 25(4). <https://doi.org/10.1109/LSP.2018.2806304>
- Zhang H, Kiranyaz S, Gabbouj M. 2018. Data Clustering Based on Community Structure in Mutual k-Nearest Neighbor Graph. teoksessa 2018 41st International Conference on Telecommunications and Signal Processing, TSP 2018. IEEE. Sivut 262-268. <https://doi.org/10.1109/TSP.2018.8441226>
- Bhattacharyya SS, Van Der Schaar M, Atan O, Tekin C, Sudusinghe K. 2014. Data-driven stream mining systems for computer vision. teoksessa Advances in Computer Vision and Pattern Recognition. SPRINGER-VERLAG LONDON LTD. Sivut 249-264. (Advances in Computer Vision and Pattern Recognition). https://doi.org/10.1007/978-3-319-09387-1_12
- Acimovic J, Teppola H, Mäki-Marttunen TM, Linne M-L. 2018. 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?. Julkaisun esittämispaikka: Brain and Mind Symposium 2018, Helsinki, Suomi.

Acimovic J, Teppola H, Mäki-Marttunen TM, Linne M-L. 2018. 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*. 19(Suppl 2):68-69.

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

Barford L, Bhattacharyya SS, Liu Y. 2017. Data Flow Algorithms for Processors with Vector Extensions: Handling Actors With Internal State. *Journal of Signal Processing Systems*. 87(1):21-31. <https://doi.org/10.1007/s11265-015-1045-x>

Komar MS. 2017. Data Rate Assessment on L2-L3 CPU Bus and Bus between CPU and RAM in Modern CPUs. *Automatic Control and Computer Sciences*. 51(7):701-708. <https://doi.org/10.3103/S014641161707029X>

Kong L, Aho KL, Granberg K, Roos C, Autio R. 2013. DBComposer: An R package for integrative analysis and management of gene expression microarray data. *teoksessa 2013 IEEE International Workshop on Genomic Signal Processing and Statistics, GENSIPS 2013 - Proceedings*. Sivut 92-93. <https://doi.org/10.1109/GENSIPS.2013.6735944>

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

Purwins H, Li B, Virtanen T, Schlüter J, Chang SY, Sainath T. 2019. Deep Learning for Audio Signal Processing. *IEEE Journal on Selected Topics in Signal Processing*. 13(2):206-219. <https://doi.org/10.1109/JSTSP.2019.2908700>

Aytekin C, Nikkanen J, Gabbouj M. 2018. Deep multiresolution color constancy. *teoksessa 2017 IEEE International Conference on Image Processing, ICIP 2017 - Proceedings*. IEEE COMPUTER SOCIETY PRESS. Sivut 3735-3739. <https://doi.org/10.1109/ICIP.2017.8296980>

Naithani G, Nikunen J, Bramslow L, Virtanen T. 2018. Deep neural network based speech separation optimizing an objective estimator of intelligibility for low latency applications. *teoksessa 16th International Workshop on Acoustic Signal Enhancement, IWAENC 2018*. IEEE. Sivut 386-390. <https://doi.org/10.1109/IWAENC.2018.8521379>

Zarkias KS, Passalis N, Tsantekidis A, Tefas A. 2019. Deep Reinforcement Learning for Financial Trading Using Price Trailing. *teoksessa 2019 IEEE International Conference on Acoustics, Speech, and Signal Processing, ICASSP 2019 - Proceedings*. IEEE. Sivut 3067-3071. <https://doi.org/10.1109/ICASSP.2019.8683161>

Passalis N, Tefas A, Kannianen J, Gabbouj M, Iosifidis A. 2019. Deep Temporal Logistic Bag-of-features for Forecasting High Frequency Limit Order Book Time Series. *teoksessa 2019 IEEE International Conference on Acoustics, Speech, and Signal Processing, ICASSP 2019 - Proceedings*. IEEE. Sivut 7545-7549. <https://doi.org/10.1109/ICASSP.2019.8682297>

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

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

Shen CC, Wu S, Sane N, Wu HH, Plishker W, Bhattacharyya SS. 2012. Design and synthesis for multimedia systems using the targeted dataflow interchange format. *IEEE Transactions on Multimedia*. 14(3 PART1):630-640. <https://doi.org/10.1109/TMM.2012.2191397>

- Boutellier J, Nyländén T. 2017. Design Flow for GPU and Multicore Execution of Dynamic Dataflow Programs. *Journal of Signal Processing Systems*. 89(3):469–478. <https://doi.org/10.1007/s11265-017-1260-8>
- Casale-Brunet S, Bezati E, Alberti C, Roquier G, Mattavelli M, Janneck JW, Boutellier J. 2013. Design space exploration and implementation of RVC-CAL applications using the TURNUS framework. *teoksessa DASIP 2013 - Proceedings of the 2013 Conference on Design and Architectures for Signal and Image Processing*. Sivut 341-342.
- Mesaros A, Heittola T, Benetos E, Foster P, Lagrange M, Virtanen T, Plumbley MD. 2018. Detection and Classification of Acoustic Scenes and Events: Outcome of the DCASE 2016 Challenge. *IEEE/ACM Transactions on Audio Speech and Language Processing*. 26(2):379-393. <https://doi.org/10.1109/TASLP.2017.2778423>
- Singh S, Valkama M, Epp M, Anttila L, Schlecker W, Ingber E. 2015. Digital correction of frequency response mismatches in 2-channel time-interleaved ADCs using adaptive I/Q signal processing. *Analog Integrated Circuits and Signal Processing*. 82(3):543-555. <https://doi.org/10.1007/s10470-014-0476-9>
- Allen M, Marttila J, Valkama M, Singh S, Epp M, Schlecker W. 2016. Digital full-band linearization of wideband direct-conversion receiver for radar and communications applications. *teoksessa 2015 49th Asilomar Conference on Signals, Systems and Computers*. IEEE COMPUTER SOCIETY PRESS. Sivut 1361-1368. <https://doi.org/10.1109/ACSSC.2015.7421365>
- Pascual Campo P, Lampu V, Meirhaeghe A, Boutellier J, Anttila L, Valkama M. 2019. Digital Predistortion for 5G Small Cell: GPU Implementation and RF Measurements. *Journal of Signal Processing Systems*. <https://doi.org/10.1007/s11265-019-01502-4>
- Abdelaziz M, Anttila L, Brihuega A, Tufvesson F, Valkama M. 2018. Digital Predistortion for Hybrid MIMO Transmitters. *IEEE Journal on Selected Topics in Signal Processing*. 12(3):445-454. <https://doi.org/10.1109/JSTSP.2018.2824981>
- Brihuega A, Anttila L, Abdelaziz M, Eriksson T, Tufvesson F, Valkama M. 2020. Digital Predistortion for Multiuser Hybrid MIMO at mmWaves. *IEEE Transactions on Signal Processing*. 68:3603-3618. <https://doi.org/10.1109/TSP.2020.2995972>
- Kaski S, Peltonen J. 2011. Dimensionality reduction for data visualization. *IEEE Signal Processing Magazine*. 28(2):100-104. <https://doi.org/10.1109/MSP.2010.940003>
- Iosifidis A, Tefas A, Pitas I. 2014. Discriminant Bag of Words based representation for human action recognition. *Pattern Recognition Letters*. 49:185-192. <https://doi.org/10.1016/j.patrec.2014.07.011>
- Mehta R, Egiazarian K. 2016. Dominant Rotated Local Binary Patterns (DRLBP) for texture classification. *Pattern Recognition Letters*. 71:16-22. <https://doi.org/10.1016/j.patrec.2015.11.019>
- Iosifidis A, Tefas A, Pitas I. 2013. Dynamic action classification based on iterative data selection and Feedforward Neural networks. *teoksessa European Signal Processing Conference. European Signal Processing Conference, EUSIPCO*.
- Iosifidis A, Tefas A, Pitas I. 2013. Dynamic action recognition based on dynemes and Extreme Learning Machine. *Pattern Recognition Letters*. 34(15):1890-1898. <https://doi.org/10.1016/j.patrec.2012.10.019>
- Lee CS, Chen WC, Bhattacharyya SS, Lee TS. 2014. Dynamic, data-driven spectrum management in cognitive small cell networks. *teoksessa 2014, 8th International Conference on Signal Processing and Communication Systems, ICSPCS 2014 - Proceedings. Institute of Electrical and Electronics Engineers Inc.* <https://doi.org/10.1109/ICSPCS.2014.7021121>
- Mäki-Marttunen TM, Acimovic J, Ruohonen KP, Linne M-L. 2011. Effects of local structure of neuronal networks on spiking activity in silico. *Fellous J-M, Prinz A, Toimittajat. teoksessa Twentieth Annual Computational Neuroscience Meeting: CNS*2011. Stockholm: BioMed Central. Sivut P202.*

- Mäki-Marttunen T, Acimovic J, Ruohonen K, Linne M-L. 2011. Effects of structure on spontaneous activity in simulated neuronal networks. teoksessa Proceedings of Mathematical Neuroscience (ICMS 2011), April 11-13, 2011, Edinburgh, Scotland.
- Rubel O, Lukin V, Abramov S, Vozel B, Egiazarian K, Pogrebnyak O. 2016. Efficiency of texture image filtering and its prediction. *Signal, Image and Video Processing*. 10(8):1543–1550. <https://doi.org/10.1007/s11760-016-0969-3>
- Peltonen J, Georgatzis K. 2012. Efficient optimization for data visualization as an information retrieval task. teoksessa 2012 IEEE International Workshop on Machine Learning for Signal Processing - Proceedings of MLSP 2012. <https://doi.org/10.1109/MLSP.2012.6349797>
- Sapio A, Bhattacharyya SS, Wolf M. 2018. Efficient Solving of Markov Decision Processes on GPUs Using Parallelized Sparse Matrices. teoksessa 2018 Conference on Design and Architectures for Signal and Image Processing, DASIP 2018. IEEE COMPUTER SOCIETY PRESS. Sivut 13-18. (Conference on Design and Architectures for Signal and Image Processing, DASIP). <https://doi.org/10.1109/DASIP.2018.8596969>
- Tripathy SR, Chakravarty K, Sinha A. 2018. Eigen Posture Based Fall Risk Assessment System Using Kinect. teoksessa 40th Annual International Conference of the IEEE Engineering in Medicine and Biology Society, EMBC 2018. IEEE. Sivut 1-4. <https://doi.org/10.1109/EMBC.2018.8513263>
- Acimovic J. 2011. Emergence of global and local structural features during development of neuronal networks. teoksessa Proceedings of the Eighth International Workshop on Computational Systems Biology, WCSB 2011, June 6-8, 2011, Zürich, Switzerland . Tampere: TICSP. (TICSP Series).
- Dai C-Q, Li F-J, Renfors M. 2015. Energy cooperation for throughput optimization based on save-then-transmit protocol in wireless communication system. *Eurasip Journal on Wireless Communications and Networking*. 2015(1). <https://doi.org/10.1186/s13638-015-0364-8>
- Yoo SK, Cotton SL, Sofotasios PC, Muhaidat S, Badarneh OS, Karagiannidis GK. 2019. Energy Detection-Based Spectrum Sensing over Fisher-Snedecor F Fading Channels. teoksessa 2018 IEEE Global Communications Conference. IEEE. <https://doi.org/10.1109/GLOCOM.2018.8647778>
- Iosifidis A, Tefas A, Pitas I. 2015. Enhancing class discrimination in Kernel Discriminant Analysis. teoksessa ICASSP, IEEE International Conference on Acoustics, Speech and Signal Processing - Proceedings. The Institute of Electrical and Electronics Engineers, Inc. Sivut 1926-1930. <https://doi.org/10.1109/ICASSP.2015.7178306>
- Nanni L, Lumini A, dos Santos FLC, Paci M, Hyttinen J. 2016. Ensembles of dense and dense sampling descriptors for the HEP-2 cells classification problem. *Pattern Recognition Letters*. 82:28-35. <https://doi.org/10.1016/j.patrec.2016.01.026>
- Sofotasios PC, Muhaidat S, Valkama M, Ghogho M, Karagiannidis GK. 2015. Entropy and Channel Capacity under Optimum Power and Rate Adaptation over Generalized Fading Conditions. *IEEE Signal Processing Letters*. 22(11):2162-2166. <https://doi.org/10.1109/LSP.2015.2464221>
- Raeesi O, Gokceoglu A, Valkama M. 2018. Estimation and Mitigation of Channel Non-Reciprocity in Massive MIMO. *IEEE Transactions on Signal Processing*. 66(10). <https://doi.org/10.1109/TSP.2018.2814992>
- Nikunen J, Virtanen T. 2018. Estimation of time-varying room impulse responses of multiple sound sources from observed mixture and isolated source signals. teoksessa 2018 IEEE International Conference on Acoustics, Speech, and Signal Processing, ICASSP 2018 - Proceedings. Institute of Electrical and Electronics Engineers Inc. Sivut 421-425. (Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing). <https://doi.org/10.1109/ICASSP.2018.8462535>

Baby D, Gemmeke JF, Virtanen T, Van Hamme H. 2015. Exemplar-based speech enhancement for deep neural network based automatic speech recognition. teoksessa ICASSP, IEEE International Conference on Acoustics, Speech and Signal Processing - Proceedings. The Institute of Electrical and Electronics Engineers, Inc. Sivut 4485-4489. <https://doi.org/10.1109/ICASSP.2015.7178819>

Petrov V, Moltchanov D, Jornet JM, Koucheryavy Y. 2019. Exploiting Multipath Terahertz Communications for Physical Layer Security in beyond 5G Networks. teoksessa INFOCOM 2019 - IEEE Conference on Computer Communications Workshops, INFOCOM WKSHPs 2019. IEEE. Sivut 865-872. <https://doi.org/10.1109/INFOCOMW.2019.8845312>

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

Mygdalis V, Iosifidis A, Tefas A, Pitas I. 2015. Exploiting subclass information in one-class support vector machine for video summarization. teoksessa ICASSP, IEEE International Conference on Acoustics, Speech and Signal Processing - Proceedings. The Institute of Electrical and Electronics Engineers, Inc. Sivut 2259-2263. <https://doi.org/10.1109/ICASSP.2015.7178373>

Qian Y, Chen K, Yu H. 2019. Fast fourier color constancy and grayness index for ISPA illumination estimation challenge. Loncaric S, Bregovic R, Carli M, Subasic M, Toimittajat. teoksessa ISPA 2019 - 11th International Symposium on Image and Signal Processing and Analysis. IEEE. Sivut 352-354. (International Symposium on Image and Signal Processing and Analysis, ISPA). <https://doi.org/10.1109/ISPA.2019.8868451>

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

Riihonen T, Korpi D, Turunen M, Valkama M. 2018. Full-duplex radio technology for simultaneously detecting and preventing improvised explosive device activation. teoksessa 2018 International Conference on Military Communications and Information Systems, ICMCIS 2018. IEEE. Sivut 1-4. <https://doi.org/10.1109/ICMCIS.2018.8398707>

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

Ilves M, Rantanen V, Venesvirta H, Lylykangas J, Vehkaoja A, Mäkelä E, Verho J, Lekkala J, Rautiainen M, Surakka V. 2020. Functional electrical stimulation for facial pacing: Effects of waveforms on movement intensity and ratings of discomfort. *Biomedical Signal Processing and Control*. 60. <https://doi.org/10.1016/j.bspc.2020.101992>

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

Heljakka K, Ihamaki P, Tuomi P, Saarikoski P. 2019. Gamified coding: Toy robots and playful learning in early education. teoksessa Proceedings - 6th Annual Conference on Computational Science and Computational Intelligence, CSCI 2019. IEEE. Sivut 800-805. <https://doi.org/10.1109/CSCI49370.2019.00152>

Raitoharju M, García-Fernández F, Hostettler R, Piché R, Särkkä S. 2020. Gaussian mixture models for signal mapping and positioning. *Signal Processing*. 168. <https://doi.org/10.1016/j.sigpro.2019.107330>

Garcia-Molla VM, San Juan P, Virtanen T, Vidal AM, Alonso P. 2019. Generalization of the K-SVD algorithm for minimization of β -divergence. *Digital Signal Processing: A Review Journal*. 92:47-53. <https://doi.org/10.1016/j.dsp.2019.05.001>

Pearson RK, Neuvo Y, Astola J, Gabbouj M. 2016. Generalized Hampel Filters. *Eurasip Journal on Advances in Signal Processing*. 2016(1). <https://doi.org/10.1186/s13634-016-0383-6>

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

Kim SC, Plishker WL, Bhattacharyya SS, Cavallaro JR. 2012. GPU-based acceleration of symbol timing recovery. teoksessa *DASIP 2012 - Proceedings of the 2012 Conference on Design and Architectures for Signal and Image Processing*. Sivut 273-280.

Irofti P, Dumitrescu B. 2014. GPU parallel implementation of the approximate K-SVD algorithm using OpenCL. teoksessa *2014 Proceedings of the 22nd European Signal Processing Conference (EUSIPCO)*. European Signal Processing Conference, EUSIPCO. Sivut 271-275.

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

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

Balasubramaniam S, Jornet JM, Pierobon M, Koucheryavy Y. 2016. Guest editorial special issue on the internet of nano things. *IEEE Internet of Things Journal*. 3(1):1-3. <https://doi.org/10.1109/JIOT.2016.2516838>

Ahmed S, Sydänheimo L, Ukkonen L, Björninen T. 2020. Headband Antenna for Wireless Power Transfer to Millimeter-Sized Neural Implants with Minimal Misalignment Effects. teoksessa *14th European Conference on Antennas and Propagation, EuCAP 2020*. IEEE. (14th European Conference on Antennas and Propagation, EuCAP 2020). <https://doi.org/10.23919/EuCAP48036.2020.9135977>

Zare A, Sreedhar KK, Vadakital VKM, Aminlou A, Hannuksela MM, Gabbouj M. 2017. HEVC-compliant viewport-adaptive streaming of stereoscopic panoramic video. teoksessa *2016 Picture Coding Symposium, PCS 2016*. IEEE. <https://doi.org/10.1109/PCS.2016.7906401>

Boutellier J, Ghazi A, Silvén O, Ersfolk J. 2013. High-performance programs by source-level merging of RVC-CAL dataflow actors. teoksessa *2013 IEEE Workshop on Signal Processing Systems, SiPS 2013*. Institute of Electrical and Electronics Engineers Inc. Sivut 360-365.

Iosifidis A, Tefas A, Nikolaidis N, Pitas I. 2014. Human action recognition in stereoscopic videos based on bag of features and disparity pyramids. teoksessa *European Signal Processing Conference*. European Signal Processing Conference, EUSIPCO. Sivut 1317-1321.

Mehrang S, Jauhiainen M, Pietilä J, Puustinen J, Ruokolainen J, Nieminen H. 2018. Identification of Parkinson's Disease Utilizing a Single Self-recorded 20-step Walking Test Acquired by Smartphone's Inertial Measurement Unit. teoksessa *40th Annual International Conference of the IEEE Engineering in Medicine and Biology Society, EMBC 2018*. Institute of Electrical and Electronics Engineers Inc. Sivut 2913-2916. <https://doi.org/10.1109/EMBC.2018.8512921>

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

Ponomarenko N, Jin L, Ieremeiev O, Lukin V, Egiazarian K, Astola J, Vozel B, Chehdi K, Carli M, Battisti F, Jay Kuo CC. 2015. Image database TID2013: Peculiarities, results and perspectives. *Signal Processing: Image Communication*. 30:57-77. <https://doi.org/10.1016/j.image.2014.10.009>

Zhu S, Zeng B, Zeng L, Gabbouj M. 2016. Image interpolation based on non-local geometric similarities and directional gradients. *IEEE Transactions on Multimedia*. 18(9):1707-1719. <https://doi.org/10.1109/TMM.2016.2593039>

Korpi D, Anttila L, Valkama M. 2014. Impact of received signal on self-interference channel estimation and achievable rates in in-band full-duplex transceivers. teoksessa 2014 48th Asilomar Conference on Signals, Systems and Computers. IEEE COMPUTER SOCIETY PRESS. Sivut 975-982. <https://doi.org/10.1109/ACSSC.2014.7094599>

Kim SC, Bhattacharyya SS. 2014. Implementation of a high-throughput low-latency polyphase channelizer on GPUs Design and Architectures for Signal and Image Processing 2008. Eurasip Journal on Advances in Signal Processing. 2014(1). <https://doi.org/10.1186/1687-6180-2014-141>

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

Mahlamäki K, Niemi A, Jokinen J, Borgman J. 2016. Importance of maintenance data quality in extended warranty simulation. International Journal of COMADEM. 19(1):3-10.

Hirvola O, Viitanen T, Sintunata V, Aoki T. 2016. Improved image quality in fast inpainting with omnidirectional filling. teoksessa International Conference on Image, Vision and Computing (ICIVC). IEEE. Sivut 31-35. <https://doi.org/10.1109/ICIVC.2016.7571269>

Kovalchukov R, Moltchanov D, Begishev V, Samuylov A, Andreev S, Koucheryavy Y, Samouylov K. 2019. Improved Session Continuity in 5G NR with Joint Use of Multi-Connectivity and Guard Bandwidth. teoksessa 2018 IEEE Global Communications Conference, GLOBECOM 2018. IEEE. <https://doi.org/10.1109/GLOCOM.2018.8647608>

Pihlajasalo J, Leppäkoski H, Ali-Löytty S, Piché R. 2018. Improvement of GPS and BeiDou extended orbit predictions with CNNs. teoksessa 26th European Navigation Conference, ENC 2018: Gothenburg, Sweden, 14-17 May, 2018. IEEE. Sivut 54-59. <https://doi.org/10.1109/EURONAV.2018.8433244>

Korpi D, Riihonen T, Valkama M. 2017. Inband full-duplex radio access system with self-backhauling: Transmit power minimization under QoS requirements. teoksessa 2017 IEEE International Conference on Acoustics, Speech, and Signal Processing, ICASSP 2017 - Proceedings. IEEE. Sivut 6558-6562. <https://doi.org/10.1109/ICASSP.2017.7953420>

Solin A, Cortes S, Rahtu E, Kannala J. 2018. Inertial Odometry on Handheld Smartphones. teoksessa 2018 21st International Conference on Information Fusion, FUSION 2018. IEEE. Sivut 1361-1368. <https://doi.org/10.23919/ICIF.2018.8455482>

Koivuluoma M, Barna L, Koivistoinen T, Kööbi T, Värri A. 2008. Influences of digital band-pass filtering on the BCG waveform. teoksessa BIOSIGNALS 2008 - Proceedings of the 1st International Conference on Bio-inspired Systems and Signal Processing. Sivut 84-89.

Balandina E, Balandin S, Koucheryavy Y, Mouromtsev D. 2016. Innovative e-Tourism Services on Top of Geo2Tag LBS Platform. teoksessa Proceedings - 11th International Conference on Signal-Image Technology and Internet-Based Systems, SITIS 2015. IEEE. Sivut 752-759. <https://doi.org/10.1109/SITIS.2015.11>

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

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

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

Richard G, Virtanen T, Bello JP, Ono N, Glotin H. 2017. Introduction to the Special Section on Sound Scene and Event Analysis. *IEEE/ACM Transactions on Audio Speech and Language Processing*. 25(6):1169-1171. <https://doi.org/10.1109/TASLP.2017.2699334>

Heulot J, Pelcat M, Nezan JF, Oliva Y, Aridhi S, Bhattacharyya SS. 2014. Just-in-time scheduling techniques for multicore signal processing systems. teoksessa 2014 IEEE Global Conference on Signal and Information Processing, GlobalSIP 2014. Institute of Electrical and Electronics Engineers Inc. Sivut 25-29. <https://doi.org/10.1109/GlobalSIP.2014.7032071>

Raitoharju M, Nurminen H, Piché R. 2015. Kalman filter with a linear state model for PDR+WLAN positioning and its application to assisting a particle filter. *Eurasip Journal on Advances in Signal Processing*. 2015(1). <https://doi.org/10.1186/s13634-015-0216-z>

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

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

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

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

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

Dumitrescu B, Rusu C, Tabus I, Astola J. 2015. Low-complexity robust DOA estimation. teoksessa ICASSP, IEEE International Conference on Acoustics, Speech and Signal Processing - Proceedings. The Institute of Electrical and Electronics Engineers, Inc. Sivut 2794-2798. <https://doi.org/10.1109/ICASSP.2015.7178480>

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

Wang S, Naithani G, Virtanen T. 2019. Low-latency Deep Clustering for Speech Separation. teoksessa 2019 IEEE International Conference on Acoustics, Speech, and Signal Processing, ICASSP 2019 - Proceedings. IEEE. Sivut 76-80. <https://doi.org/10.1109/ICASSP.2019.8683437>

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

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

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

Petrov V, Eckhardt JM, Moltchanov D, Koucheryavy Y, Kurner T. 2020. Measurements of Reflection and Penetration Losses in Low Terahertz Band Vehicular Communications. teoksessa 14th European Conference on Antennas and Propagation, EuCAP 2020. Institute of Electrical and Electronics Engineers Inc. (14th European Conference on Antennas and Propagation, EuCAP 2020). <https://doi.org/10.23919/EuCAP48036.2020.9135389>

Helin P, Astola P, Rao B, Tabus I. 2017. Minimum description length sparse modeling and region merging for lossless plenoptic image compression. *IEEE Journal on Selected Topics in Signal Processing*. 11(7). <https://doi.org/10.1109/JSTSP.2017.2737967>

Iosifidis A, Tefas A, Pitas I. 2014. Minimum Variance Extreme Learning Machine for human action recognition. teoksessa ICASSP, IEEE International Conference on Acoustics, Speech and Signal Processing - Proceedings. The Institute of Electrical and Electronics Engineers, Inc. Sivut 5427-5431. <https://doi.org/10.1109/ICASSP.2014.6854640>

Akar GB, Gotchev A. 2015. MOBILE3DTV: Content delivery optimization over DVB-H system. teoksessa SMPTE International Conference on Stereoscopic 3D for Media and Entertainment. SMPTE. <https://doi.org/10.5594/M001417>

Wu J, Blattner T, Keyrouz W, Bhattacharyya SS. 2017. Model-based dynamic scheduling for multicore implementation of image processing systems. teoksessa 2017 IEEE International Workshop on Signal Processing Systems, SiPS 2017. IEEE. <https://doi.org/10.1109/SiPS.2017.8110003>

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

Kedilaya S, Plishker W, Purkovic A, Johnson B, Bhattacharyya SS. 2011. Model-based precision analysis and optimization for digital signal processors. teoksessa European Signal Processing Conference. Sivut 506-510.

Azzari L, Borges LR, Foi A. 2018. Modeling and estimation of signal-dependent and correlated noise. teoksessa Denoising of Photographic Images and Video: Fundamentals, Open Challenges and New Trends. SPRINGER-VERLAG LONDON LTD. Sivut 1-36. (Advances in Computer Vision and Pattern Recognition). https://doi.org/10.1007/978-3-319-96029-6_1

Wang W, Fath T, Valkama M, Lohan ES. 2020. Modeling and Mitigating 5G Wireless Downlink Interferences for Low-altitude Aerial vehicles. Nurmi J, Lohan E-S, Torres-Sospedra J, Kuusniemi H, Ometov A, Toimittajat. teoksessa 2020 International Conference on Localization and GNSS, ICL-GNSS 2020 - Proceedings. IEEE. (2020 International Conference on Localization and GNSS, ICL-GNSS 2020 - Proceedings). <https://doi.org/10.1109/ICL-GNSS49876.2020.9115534>

Bhattacharyya SS, Plishker W, Sane N, Shen CC, Wu HH. 2011. Modeling and optimization of dynamic signal processing in resource-aware sensor networks. teoksessa 2011 8th IEEE International Conference on Advanced Video and Signal Based Surveillance, AVSS 2011. Sivut 449-454. <https://doi.org/10.1109/AVSS.2011.6027374>

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

Pelcat M, Desnos K, Maggiani L, Liu Y, Heulot J, Nezan JF, Bhattacharyya SS. 2016. Models of architecture: Reproducible efficiency evaluation for signal processing systems. teoksessa IEEE International Workshop on Signal Processing Systems, SiPS 2016. IEEE. Sivut 121-126. (IEEE International Workshop on Signal Processing Systems). <https://doi.org/10.1109/SiPS.2016.29>

Nikunen J, Politis A. 2018. Multichannel NMF for source separation with ambisonic signals. teoksessa 16th International Workshop on Acoustic Signal Enhancement, IWAENC 2018 . IEEE. Sivut 251-255. <https://doi.org/10.1109/IWAENC.2018.8521344>

Wang LH, Shen CC, Seetharaman G, Palaniappan K, Bhattacharyya SS. 2012. Multidimensional dataflow graph modeling and mapping for efficient GPU implementation. teoksessa Proceedings - 2012 IEEE Workshop on Signal Processing Systems, SiPS 2012. Sivut 300-305. <https://doi.org/10.1109/SiPS.2012.10>

Thanh Tran D, Gabbouj M, Iosifidis A. 2017. Multilinear class-specific discriminant analysis. Pattern Recognition Letters. 100:131-136. <https://doi.org/10.1016/j.patrec.2017.10.027>

Sohrab F, Raitoharju J, Iosifidis A, Gabbouj M. 2020. Multimodal subspace support vector data description. Pattern Recognition. 110. <https://doi.org/10.1016/j.patcog.2020.107648>

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

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

Carabias-Orti JJ, Cabanas-Molero P, Vera-Candeas P, Nikunen J. 2018. Multi-source localization using a DOA Kernel based spatial covariance model and complex nonnegative matrix factorization. teoksessa 2018 IEEE 10th Sensor Array and Multichannel Signal Processing Workshop, SAM 2018. IEEE. Sivut 440-444. (Proceedings of the IEEE Sensor Array and Multichannel Signal Processing Workshop). <https://doi.org/10.1109/SAM.2018.8448664>

Iosifidis A, Tefas A, Pitas I. 2013. Multi-view action recognition based on action volumes, fuzzy distances and cluster discriminant analysis. Signal Processing. 93(6):1445-1457. <https://doi.org/10.1016/j.sigpro.2012.08.015>

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

Yuan J, Gao K, Zhu P, Egiuzarian K. 2018. Multi-view predictive latent space learning. Pattern Recognition Letters. <https://doi.org/10.1016/j.patrec.2018.06.022>

González-Díaz I, Birinci M, Díaz-De-María F, Delp EJ. 2017. Neighborhood Matching for Image Retrieval. IEEE Transactions on Multimedia. 19(3):544-558. <https://doi.org/10.1109/TMM.2016.2616298>

Acimovic J. 2009. Neural networks, cell cultures and some older work on data analysis. Julkaisun esittämispaikka: Okinawa Computational Neuroscience Course 2009, Japani.

Cruz C, Foi A, Katkovnik V, Egiuzarian K. 2018. Nonlocality-Reinforced Convolutional Neural Networks for Image Denoising. IEEE Signal Processing Letters. 25(8):1216-1220. <https://doi.org/10.1109/LSP.2018.2850222>

Şimşekli U, Virtanen T, Cemgil AT. 2015. Non-negative tensor factorization models for Bayesian audio processing. Digital Signal Processing. 47:178-191. <https://doi.org/10.1016/j.dsp.2015.03.011>

Won S, Shen CC, Bhattacharyya SS. 2012. NT-SIM: A co-simulator for networked signal processing applications. teoksessa Proceedings of the 20th European Signal Processing Conference, EUSIPCO 2012. Sivut 1094-1098.

Iosifidis A, Gabbouj M. 2016. Nyström-based approximate kernel subspace learning. Pattern Recognition. 190-197. <https://doi.org/10.1016/j.patcog.2016.03.018>

Kovács P, Samiee K, Gabbouj M. 2014. On application of rational Discrete Short Time Fourier Transform in epileptic seizure classification. teoksessa 2014 IEEE International Conference on Acoustics, Speech and Signal processing (ICASSP), May 4-9 2014, Florence, Italy. Piscataway: IEEE. Sivut 5839-5843. (IEEE International Conference on

Acoustics, Speech and Signal Processing). <https://doi.org/10.1109/ICASSP.2014.6854723>

Ivanov S, Botvich D, Balasubramaniam S. 2011. On delay distribution in IEEE 802.11 wireless networks. teoksessa 16th IEEE Symposium on Computers and Communications, ISCC'11. Sivut 254-256. <https://doi.org/10.1109/ISCC.2011.5983849>

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

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

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

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

Mäki-Marttunen TM, Acimovic J, Ruohonen KP, Linne M-L. 2013. On the effect of network structure and synaptic mechanisms on sustained bursting activity. Cymbalyuk G, Prinz A, Toimittajat. teoksessa Twenty Second Annual Computational Neuroscience Meeting: CNS*2013. Paris, France: BioMed Central. Sivut P247.

Rusu C, Astola J. 2017. On the existence of the solution for one-dimensional discrete phase retrieval problem. Signal, Image and Video Processing. 11(2):195–202. <https://doi.org/10.1007/s11760-016-0919-0>

Iosifidis A, Tefas A, Pitas I. 2015. On the kernel Extreme Learning Machine classifier. Pattern Recognition Letters. 54:11-17. <https://doi.org/10.1016/j.patrec.2014.12.003>

Mozny R, Masek P, Stusek M, Zeman K, Ometov A, Hosek J. 2019. On the performance of narrow-band internet of things (NB-IoT) for delay-tolerant services. Herencsar N, Toimittaja. teoksessa 2019 42nd International Conference on Telecommunications and Signal Processing, TSP 2019. IEEE. Sivut 637-642. (2019 42nd International Conference on Telecommunications and Signal Processing, TSP 2019). <https://doi.org/10.1109/TSP.2019.8768871>

Multanen J, Kultala H, Koskela M, Viitanen T, Jääskeläinen P, Takala J, Danielyan A, Cruz C. 2016. OpenCL Programmable Exposed Datapath High Performance Low-Power Image Signal Processor. teoksessa 2016 IEEE Nordic Circuits and Systems Conference (NORCAS). IEEE. <https://doi.org/10.1109/NORCHIP.2016.7792906>

Pertuz S, Torres GF, Tamimi R, Kämäräinen J. 2019. Open framework for mammography-based breast cancer risk assessment. teoksessa 2019 IEEE EMBS International Conference on Biomedical and Health Informatics, BHI 2019 - Proceedings. IEEE. <https://doi.org/10.1109/BHI.2019.8834599>

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

Rostami S, Lagen S, Costa M, Dini P, Valkama M. 2019. Optimized wake-up scheme with bounded delay for energy-efficient MTC. teoksessa 2019 IEEE Global Communications Conference, GLOBECOM 2019 - Proceedings. IEEE. <https://doi.org/10.1109/GLOBECOM38437.2019.9013534>

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

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

Wang LH, Shen CC, Bhattacharyya SS. 2013. Parameterized core functional dataflow graphs and their application to design and implementation of wireless communication systems. *teoksessa 2013 IEEE Workshop on Signal Processing Systems, SiPS 2013*. Institute of Electrical and Electronics Engineers Inc. Sivut 1-6.

Wu S, Shen CC, Sane N, Davis K, Bhattacharyya SS. 2012. Parameterized scheduling for signal processing systems using topological patterns. *teoksessa 2012 IEEE International Conference on Acoustics, Speech, and Signal Processing, ICASSP 2012 - Proceedings*. Sivut 1561-1564. <https://doi.org/10.1109/ICASSP.2012.6288190>

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

Genocchi B, Cunha A, Jain S, Hyttinen J, Lenk K, Ellingsrud AJ. 2020. Parametric exploration of cellular swelling in a computational model of cortical spreading depression. *teoksessa 42nd Annual International Conferences of the IEEE Engineering in Medicine and Biology Society: Enabling Innovative Technologies for Global Healthcare, EMBC 2020*. IEEE. Sivut 2491-2495. (Annual International Conference of the IEEE Engineering in Medicine and Biology Society). <https://doi.org/10.1109/EMBC44109.2020.9175306>

Zaki G, Plishker W, Bhattacharyya SS, Fruth F. 2015. Partial expansion of dataflow graphs for resource-aware scheduling of multicore signal processing systems. *teoksessa Conference Record of the 48th Asilomar Conference on Signals, Systems and Computers*. IEEE COMPUTER SOCIETY PRESS. Sivut 385-392. <https://doi.org/10.1109/ACSSC.2014.7094469>

He H, Chen X, Raivio L, Huttunen H, Virkki J. 2020. Passive RFID-based Textile Touchpad. *teoksessa 14th European Conference on Antennas and Propagation, EuCAP 2020*. IEEE. <https://doi.org/10.23919/EuCAP48036.2020.9135201>

Yi X, Cho C, Cooper J, Wang Y, Tentzeris MM, Leon RT. 2013. Passive wireless antenna sensor for strain and crack sensing - Electromagnetic modeling, simulation, and testing. *Smart Materials and Structures*. 22(8). <https://doi.org/10.1088/0964-1726/22/8/085009>

Yang M, Zhu H, Wang H, Koucheryavy Y, Samouylov K, Qian H. 2020. Peer to Peer Offloading with Delayed Feedback: An Adversary Bandit Approach. *teoksessa 2020 IEEE International Conference on Acoustics, Speech, and Signal Processing, ICASSP 2020 - Proceedings*. IEEE. Sivut 5035-5039. (ICASSP, IEEE International Conference on Acoustics, Speech and Signal Processing - Proceedings). <https://doi.org/10.1109/ICASSP40776.2020.9053680>

Fu J, Pertuz S, Matas J, Kämäräinen J-K. 2019. Performance analysis of single-query 6-DoF camera pose estimation in self-driving setups. *Computer Vision and Image Understanding*. 186:58-73. <https://doi.org/10.1016/j.cviu.2019.04.009>

Khosravi Z, Gerasimenko M, Andreev S, Koucheryavy Y. 2018. Performance Evaluation of UAV-Assisted mmWave Operation in Mobility-Enabled Urban Deployments. *teoksessa 2018 41st International Conference on Telecommunications and Signal Processing, TSP 2018*. IEEE. Sivut 150-153. <https://doi.org/10.1109/TSP.2018.8441321>

Karttunen A, Valkama M, Talvitie J. 2020. Positioning Based on Noise-Limited Censored Path Loss Data. Nurmi J, Lohan E-S, Torres-Sospedra J, Kuusniemi H, Ometov A, Toimittajat. *teoksessa 2020 International Conference on Localization and GNSS, ICL-GNSS 2020 - Proceedings*. IEEE. (2020 International Conference on Localization and GNSS, ICL-GNSS 2020 - Proceedings). <https://doi.org/10.1109/ICL-GNSS49876.2020.9115572>

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

Aytekin C, Iosifidis A, Gabbouj M. 2018. Probabilistic saliency estimation. *Pattern Recognition*. 74:359-372. <https://doi.org/10.1016/j.patcog.2017.09.023>

Ghazi A, Boutellier J, Hannuksela J, Shahabuddin S, Silvén O. 2013. Programmable implementation of zero-crossing demodulator on an application specific processor. teoksessa 2013 IEEE Workshop on Signal Processing Systems, SiPS 2013. Institute of Electrical and Electronics Engineers Inc. Sivut 231-236.

Hautala I, Boutellier J, Hannuksela J. 2013. Programmable lowpower implementation of the HEVC Adaptive Loop Filter. teoksessa 2013 IEEE International Conference on Acoustics, Speech, and Signal Processing, ICASSP 2013 - Proceedings. Sivut 2664-2668. <https://doi.org/10.1109/ICASSP.2013.6638139>

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

Khan Z, He H, Chen X, Ukkonen L, Virkki J. 2020. Protective Coating Methods for Glove-Integrated RFID Tags - A Preliminary Study. teoksessa 14th European Conference on Antennas and Propagation, EuCAP 2020. IEEE. (14th European Conference on Antennas and Propagation, EuCAP 2020). <https://doi.org/10.23919/EuCAP48036.2020.9135632>

Gerasimenko M, Pokorny J, Schneider T, Sirjov J, Andreev S, Hosek J. 2019. Prototyping directional UAV-based wireless access and backhaul systems. teoksessa 2019 IEEE Global Communications Conference, GLOBECOM 2019 - Proceedings. IEEE. <https://doi.org/10.1109/GLOBECOM38437.2019.9014228>

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

De Wit JJM, Harmanny RIA, Molchanov P. 2014. Radar micro-Doppler feature extraction using the Singular Value Decomposition. teoksessa 2014 International Radar Conference, Radar 2014. The Institute of Electrical and Electronics Engineers, Inc. <https://doi.org/10.1109/RADAR.2014.7060268>

Barneto CB, Riihonen T, Turunen M, Koivisto M, Talvitie J, Valkama M. 2020. Radio-based Sensing and Indoor Mapping with Millimeter-Wave 5G NR Signals. Nurmi J, Lohan E-S, Torres-Sospedra J, Kuusniemi H, Ometov A, Toimittajat. teoksessa 2020 International Conference on Localization and GNSS, ICL-GNSS 2020 - Proceedings. IEEE. (2020 International Conference on Localization and GNSS, ICL-GNSS 2020 - Proceedings). <https://doi.org/10.1109/ICL-GNSS49876.2020.9115568>

Amestoy T, Mercat A, Hamidouche W, Bergeron C, Menard D. 2019. Random Forest Oriented Fast QTBT Frame Partitioning. teoksessa 2019 IEEE International Conference on Acoustics, Speech, and Signal Processing, ICASSP 2019 - Proceedings. IEEE. Sivut 1837-1841. <https://doi.org/10.1109/ICASSP.2019.8683413>

Habib M, Rasheed S, Hussain A, Ali M. 2016. Random Value Impulse Noise Removal Based on Most Similar Neighbors. teoksessa 2015 13th International Conference on Frontiers of Information Technology (FIT) . IEEE. Sivut 329-333. <https://doi.org/10.1109/FIT.2015.64>

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

Abdelaziz M, Anttila L, Valkama M. 2017. Reduced-complexity digital predistortion for massive MIMO. teoksessa 2017 IEEE International Conference on Acoustics, Speech, and Signal Processing, ICASSP 2017 - Proceedings. IEEE. Sivut 6478-6482. <https://doi.org/10.1109/ICASSP.2017.7953404>

Tafintsev N, Moltchanov D, Simsek M, Yeh SP, Andreev S, Koucheryavy Y, Valkama M. 2020. Reinforcement learning for improved UAV-based integrated access and backhaul operation. teoksessa 2020 IEEE International Conference on Communications Workshops, ICC Workshops 2020 - Proceedings. IEEE. (IEEE/CIC international conference on communications in China - workshops). <https://doi.org/10.1109/ICCWorkshops49005.2020.9145423>

Iosifidis A, Tefas A, Pitas I. 2013. Representative class vector clustering-based discriminant analysis. teoksessa Proceedings - 2013 9th International Conference on Intelligent Information Hiding and Multimedia Signal Processing, IHH-MSP 2013. IEEE COMPUTER SOCIETY PRESS. Sivut 526-529. <https://doi.org/10.1109/IHH-MSP.2013.136>

Nurminen H, Ardeshiri T, Piché R, Gustafsson F. 2015. Robust Inference for State-Space Models with Skewed Measurement Noise. IEEE Signal Processing Letters. 22(11):1898-1902. <https://doi.org/10.1109/LSP.2015.2437456>

Jaakkola H, Thalheim B, Henno J, Mäkelä J, Keto H. 2018. Role of the user in information systems development. teoksessa 2018 41st International Convention on Information and Communication Technology, Electronics and Microelectronics, MIPRO 2018. IEEE. Sivut 625-632. <https://doi.org/10.23919/MIPRO.2018.8400118>

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

Tran DT, Waris MA, Gabbouj M, Iosifidis A. 2018. Sample-based regularization for support vector machine classification. teoksessa Proceedings of the 7th International Conference on Image Processing Theory, Tools and Applications, IPTA 2017. IEEE. Sivut 1-6. <https://doi.org/10.1109/IPTA.2017.8310103>

Boutellier J, Silven O, Raulet M. 2011. Scheduling of CAL actor networks based on dynamic code analysis. teoksessa 2011 IEEE International Conference on Acoustics, Speech, and Signal Processing, ICASSP 2011 - Proceedings. Sivut 1609-1612. <https://doi.org/10.1109/ICASSP.2011.5946805>

Gao Y, Bregovic R, Gotchev A. 2020. Self-Supervised Light Field Reconstruction Using Shearlet Transform and Cycle Consistency. IEEE Signal Processing Letters. 27:1425-1429. <https://doi.org/10.1109/LSP.2020.3008082>

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

Hurmalainen A, Saeidi R, Virtanen T. 2015. Similarity induced group sparsity for non-negative matrix factorisation. teoksessa ICASSP, IEEE International Conference on Acoustics, Speech and Signal Processing - Proceedings. The Institute of Electrical and Electronics Engineers, Inc. Sivut 4425-4429. <https://doi.org/10.1109/ICASSP.2015.7178807>

Nurminen H, Ardeshiri T, Piche R, Gustafsson F. 2018. Skew-t Filter and Smoother with Improved Covariance Matrix Approximation. IEEE Transactions on Signal Processing. 66(21):5618-5633. <https://doi.org/10.1109/TSP.2018.2865434>

Galinina O, Mikhaylov K, Andreev S, Turlikov A, Koucheryavy Y. 2015. Smart home gateway system over Bluetooth low energy with wireless energy transfer capability. Eurasip Journal on Wireless Communications and Networking. 2015(1). <https://doi.org/10.1186/s13638-015-0393-3>

Moltchanov D, Kovalchukov R, Gerasimenko M, Andreev S, Koucheryavy Y, Gerla M. 2019. Socially inspired relaying and proactive mode selection in mmWave vehicular communications. IEEE Internet of Things Journal. 6(3):5172-5183. <https://doi.org/10.1109/JIOT.2019.2898420>

Sofotasios PC, Muhaidat S, Karagiannidis GK, Sharif BS. 2015. Solutions to integrals involving the marcum Q-function and applications. IEEE Signal Processing Letters. 22(10):1752-1756. <https://doi.org/10.1109/LSP.2015.2432064>

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

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

Carrera D, Boracchi G, Foi A, Wohlberg B. 2017. Sparse Overcomplete Denoising: Aggregation Versus Global Optimization. *IEEE Signal Processing Letters*. 24(10):1468-1472. <https://doi.org/10.1109/LSP.2017.2734119>

Katkovnik V, Egiazarian K. 2017. Sparse phase imaging based on complex domain nonlocal BM3D techniques. *Digital Signal Processing*. 63:72-85. <https://doi.org/10.1016/j.dsp.2017.01.002>

Rebeiz E, Hagh Ghadam AS, Valkama M, Cabric D. 2015. Spectrum Sensing under RF Non-Linearities: Performance Analysis and DSP-Enhanced Receivers. *IEEE Transactions on Signal Processing*. 63(8):1950-1964. <https://doi.org/10.1109/TSP.2015.2401532>

Phan D, Rodrigues SS. 2018. Stabilization to trajectories for parabolic equations. *Mathematics of Control, Signals, and Systems*. 30(2). <https://doi.org/10.1007/s00498-018-0218-0>

Rui R, Ardeshiri T, Nurminen H, Bazanella A, Gustafsson F. 2017. State Estimation for a Class of Piecewise Affine State-Space Models. *IEEE Signal Processing Letters*. 24(1):61-65. <https://doi.org/10.1109/LSP.2016.2633624>

Lehtomäki JJ, Bicen AO, Akyildiz IF. 2016. Statistical analysis of interference for nanoscale electromechanical wireless communication at VHF-band. *IEEE Transactions on Signal Processing*. 64(8):2040-2050. <https://doi.org/10.1109/TSP.2015.2512526>

Egiazarian K, Ponomarenko M, Lukin V, Ieremeiev O. 2018. Statistical Evaluation of Visual Quality Metrics for Image Denoising. teoksessa 2018 IEEE International Conference on Acoustics, Speech, and Signal Processing, ICASSP 2018 - Proceedings. Institute of Electrical and Electronics Engineers Inc. Sivut 6752-6756. <https://doi.org/10.1109/ICASSP.2018.8462294>

Zemliachenko A, Lukin V, Ponomarenko N, Egiazarian K, Astola J. 2016. Still image/video frame lossy compression providing a desired visual quality. *Multidimensional Systems and Signal Processing*. 27(3):697-718. <https://doi.org/10.1007/s11045-015-0333-8>

Schiopu I, Gabbouj M, Iosifidis A, Zeng B, Liu S. 2018. Subaperture image segmentation for lossless compression. teoksessa Proceedings of the 7th International Conference on Image Processing Theory, Tools and Applications, IPTA 2017. IEEE. Sivut 1-6. <https://doi.org/10.1109/IPTA.2017.8310083>

Dricot A, Jung J, Cagnazzo M, Pesquet B, Dufaux F, Kovács P, Adhikarla VK. 2015. Subjective evaluation of Super Multi-View compressed contents on high-end light-field 3D displays. *Signal Processing: Image Communication*. 39(Part B):369-385. <https://doi.org/10.1016/j.image.2015.04.012>

Tejero-de-Pablos A, Nakashima Y, Sato T, Yokoya N, Linna M, Rahtu E. 2018. Summarization of User-Generated Sports Video by Using Deep Action Recognition Features. *IEEE Transactions on Multimedia*. 20(8):2000-2011. <https://doi.org/10.1109/TMM.2018.2794265>

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

Zhou Z, Shen CC, Plishker W, Wu HH, Bhattacharyya SS. 2012. Systematic integration of flowgraph- and module-level parallelism in implementation of DSP applications on multiprocessor systems-on-chip. teoksessa ICSP 2012 - 2012 11th International Conference on Signal Processing, Proceedings. Sivut 402-408. <https://doi.org/10.1109/ICoSP.2012.6491686>

Tarniceriu A, Harju J, Yousefi ZR, Vehkaoja A, Parak J, Yli-Hankala A, Korhonen I. 2018. The Accuracy of Atrial Fibrillation Detection from Wrist Photoplethysmography. A Study on Post-Operative Patients. teoksessa 40th Annual International Conference of the IEEE Engineering in Medicine and Biology Society, EMBC 2018. IEEE. Sivut 4844-4847. <https://doi.org/10.1109/EMBC.2018.8513197>

Meirhaeghe A, Boutellier J, Collin J. 2019. The Direction Cosine Matrix Algorithm in Fixed-point: Implementation and Analysis. teoksessa ICASSP 2019 - 2019 IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP). IEEE. <https://doi.org/10.1109/ICASSP.2019.8683644>

Kara PA, Kovacs PT, Vagharshakyan S, Martini MG, Barsi A, Balogh T, Chuchvara A, Chehaibi A. 2017. The Effect of Light Field Reconstruction and Angular Resolution Reduction on the Quality of Experience. teoksessa 2016 12th International Conference on Signal-Image Technology & Internet-Based Systems (SITIS). IEEE. Sivut 781-786. <https://doi.org/10.1109/SITIS.2016.128>

Sikiö M, Holli-Helenius KK, Ryymin P, Dastidar P, Eskola H, Harrison L. 2015. The effect of region of interest size on textural parameters. teoksessa 2015 9th International Symposium on Image and Signal Processing and Analysis (ISPA). IEEE. Sivut 149-153. <https://doi.org/10.1109/ISPA.2015.7306049>

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

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

Dos Santos RS, Taylor J, Davies M, Mavrogianni A, Milner J. 2017. The variation of air and surface temperatures in London within a 1km grid using vehicle-transect and ASTER data. teoksessa 2017 Joint Urban Remote Sensing Event, JURSE 2017. Institute of Electrical and Electronics Engineers Inc. (2017 Joint Urban Remote Sensing Event, JURSE 2017). <https://doi.org/10.1109/JURSE.2017.7924613>

Pertilä P, Parviainen M. 2019. Time Difference of Arrival Estimation of Speech Signals Using Deep Neural Networks with Integrated Time-frequency Masking. teoksessa 2019 IEEE International Conference on Acoustics, Speech, and Signal Processing, ICASSP 2019 - Proceedings. IEEE. Sivut 436-440. <https://doi.org/10.1109/ICASSP.2019.8682574>

Parviainen M, Pertilä P, Virtanen T, Grosche P. 2018. Time-frequency masking strategies for single-channel low-latency speech enhancement using neural networks. teoksessa 16th International Workshop on Acoustic Signal Enhancement, IWAENC 2018. IEEE. Sivut 51-55. <https://doi.org/10.1109/IWAENC.2018.8521400>

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

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

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

Eyraud C, Sorsa LI, Herique A, Geffrin JM, Pursiainen S, Kofman W. 2020. Towards Asteroid Tomography: Modellings and Measurements Using an Analogue Model. teoksessa 14th European Conference on Antennas and Propagation, EuCAP 2020. IEEE. (14th European Conference on Antennas and Propagation, EuCAP 2020). <https://doi.org/10.23919/EuCAP48036.2020.9136060>

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

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

Holm J, Väänänen K, Remans MMR. 2019. User Experience Study of 360° Music Videos on Computer Monitor and Virtual Reality Goggles. Banissi E, Ursyn A, McK. Bannatyne MW, Datia N, Pires JM, Francese R, Sarfraz M, Wyeld TG, Bouali F, Venturin G, Azzag H, Lebbah M, Trutschl M, Cvek U, Muller H, Nakayama M, Kernbach S, Caruccio L, Risi M, Erra U, Vitiello A, Rossano V, Toimittajat. teoksessa *Information Visualization - Biomedical Visualization and Geometric Modelling and Imaging, IV 2019*. IEEE. Sivut 81-87. (Proceedings of the International Conference on Information Visualisation). <https://doi.org/10.1109/IV.2019.00023>

Rastorgueva-Foi E, Costa M, Koivisto M, Leppänen K, Valkama M. 2018. User Positioning in mmW 5G Networks Using Beam-RSRP Measurements and Kalman Filtering. teoksessa *2018 21st International Conference on Information Fusion, FUSION 2018*. IEEE. Sivut 1150-1156. <https://doi.org/10.23919/ICIF.2018.8455289>

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

Huang G, Heittola T, Virtanen T. 2018. Using sequential information in polyphonic sound event detection. teoksessa *16th International Workshop on Acoustic Signal Enhancement, IWAENC 2018*. IEEE. Sivut 291-295. <https://doi.org/10.1109/IWAENC.2018.8521367>

Petrov V, Fodor G, Andreev S, Do H, Sahlin H. 2019. V2X Connectivity: From LTE to Joint Millimeter Wave Vehicular Communications and Radar Sensing. Matthews MB, Toimittaja. teoksessa *Conference Record - 53rd Asilomar Conference on Circuits, Systems and Computers, ACSSC 2019*. IEEE Computer Society. Sivut 1120-1124. (Conference Record - Asilomar Conference on Signals, Systems and Computers). <https://doi.org/10.1109/IEEECONF44664.2019.9048846>

Passalis N, Mourgias-Alexandris G, Tsakyridis A, Pleros N, Tefas A. 2019. Variance Preserving Initialization for Training Deep Neuromorphic Photonic Networks with Sinusoidal Activations. teoksessa *2019 IEEE International Conference on Acoustics, Speech, and Signal Processing, ICASSP 2019 - Proceedings*. IEEE. Sivut 1483-1487. <https://doi.org/10.1109/ICASSP.2019.8682218>

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

Zaki GF, Plishker W, Bhattacharyya SS, Clancy C, Kuykendall J. 2011. Vectorization and mapping of software defined radio applications on heterogeneous multi-processor platforms. teoksessa *2011 IEEE Workshop on Signal Processing Systems, SiPS 2011, Proceedings*. Sivut 31-36. <https://doi.org/10.1109/SiPS.2011.6088945>

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

Schwarz S, Sheikhipour N, Fakour Sevom V, Hannuksela MM. 2019. Video coding of dynamic 3D point cloud data. *APSIPA Transactions on Signal and Information Processing*. <https://doi.org/10.1017/ATSIP.2019.24>

Patrona F, Iosifidis A, Tefas A, Nikolaidis N, Pitas I. 2016. Visual Voice Activity Detection in the Wild. *IEEE Transactions on Multimedia*. 18(6):967-977. <https://doi.org/10.1109/TMM.2016.2535357>

Vaz P, Pereira T, Figueiras E, Correia C, Humeau-Heurtier A, Cardoso J. 2016. Which wavelength is the best for arterial pulse waveform extraction using laser speckle imaging?. *Biomedical Signal Processing and Control*. 25:188-195. <https://doi.org/10.1016/j.bspc.2015.11.013>

Acimovic J, Mäki-Marttunen TM, Linne M-L. 2015. Whole-cell morphological properties of neurons constrain the nonrandom features of network connectivity. Cymbalyuk G, Burkitt A, Toimittajat. teoksessa 24th Annual Computational Neuroscience Meeting: CNS*2015. Prague: BioMed Central. Sivut P:07.