

- Turunen, E 2020, 'Necessary and sufficient conditions for the existence of solution of generalized fuzzy relation equations $A \Leftrightarrow X = B$ ', *Information Sciences*, vol. 536, pp. 351-357. <https://doi.org/10.1016/j.ins.2020.05.015>
- Netzev, M, Angleraud, A & Pieters, R 2020, 'Soft robotic gripper with compliant cell stacks for industrial part handling', *IEEE Robotics and Automation Letters*, vol. 5, no. 4, pp. 6821-6828. <https://doi.org/10.1109/LRA.2020.3020546>
- Terryn, L, Calders, K, Disney, M, Origo, N, Malhi, Y, Newnham, G, Raunonen, P, Åkerblom, M & Verbeeck, H 2020, 'Tree species classification using structural features derived from terrestrial laser scanning', *ISPRS Journal of Photogrammetry and Remote Sensing*, vol. 168, pp. 170-181. <https://doi.org/10.1016/j.isprsjprs.2020.08.009>
- Bardinova, Y, Zhidanov, K, Bezzateev, S, Komarov, M & Ometov, A 2020, 'Measurements of Mobile Blockchain Execution Impact on Smartphone Battery', *Data*, vol. 5, no. 3, 66. <https://doi.org/10.3390/data5030066>
- Lampinen, S, Niemi, J & Mattila, J 2020, Flow-bounded trajectory-scaling algorithm for hydraulic robotic manipulators. in *2020 IEEE/ASME International Conference on Advanced Intelligent Mechatronics, AIM 2020*. IEEE/ASME International Conference on Advanced Intelligent Mechatronics, AIM, IEEE, pp. 619-624, IEEE/ASME International Conference on Advanced Intelligent Mechatronics, Boston, United States, 6/07/20. <https://doi.org/10.1109/AIM43001.2020.9158851>
- Ghorbani, M, Dehmer, M, Cao, S, Feng, L, Tao, J & Emmert-Streib, F 2020, 'On the zeros of the partial Hosoya polynomial of graphs', *Information Sciences*, vol. 524, pp. 199-215. <https://doi.org/10.1016/j.ins.2020.03.011>
- Rostami, S, Kela, P, Leppanen, K & Valkama, M 2020, 'Wake-up Radio-Based 5G Mobile Access: Methods, Benefits, and Challenges', *IEEE Communications Magazine*, vol. 58, no. 7, pp. 14-20. <https://doi.org/10.1109/MCOM.001.1900614>
- Samuylov, A, Moltchanov, D, Kovalchukov, R, Pirmagomedov, R, Gaidamaka, Y, Andreev, S, Koucheryavy, Y & Samouylov, K 2020, 'Characterizing Resource Allocation Trade-Offs in 5G NR Serving Multicast and Unicast Traffic', *IEEE Transactions on Wireless Communications*, vol. 19, no. 5, 9003488, pp. 3421-3434. <https://doi.org/10.1109/TWC.2020.2973375>
- Serra, A, Fratello, M, Del Giudice, G, Saarimäki, LA, Paci, M, Federico, A & Greco, D 2020, 'TinderMIX: Time-dose integrated modelling of toxicogenomics data', *GigaScience*, vol. 9, no. 5. <https://doi.org/10.1093/gigascience/giaa055>
- Adonias, GL, Yastrebova, A, Barros, MT, Koucheryavy, Y, Cleary, F & Balasubramaniam, S 2020, 'Utilizing Neurons for Digital Logic Circuits: A Molecular Communications Analysis', *IEEE Transactions on Nanobioscience*, vol. 19, no. 2, pp. 224-236. <https://doi.org/10.1109/TNB.2020.2975942>
- Tripathy, S, Kannala, J & Rahtu, E 2020, ICface: Interpretable and controllable face reenactment using GANs. in *2020 IEEE Winter Conference on Applications of Computer Vision, WACV 2020*. IEEE Winter Conference on Applications of Computer Vision, IEEE, pp. 3374-3383, IEEE/CVF Winter Conference on Applications of Computer Vision, Snowmass Village, United States, 1/03/20. <https://doi.org/10.1109/WACV45572.2020.9093474>
- Nupponen, J & Taibi, D 2020, Serverless: What it Is, What to Do and What Not to Do. in *2020 IEEE International Conference on Software Architecture Companion, ICSA-C 2020*. IEEE, pp. 49-50, IEEE International Conference on Software Architecture Companion, Salvador, Brazil, 16/03/20. <https://doi.org/10.1109/ICSA-C50368.2020.00016>
- Wang, Y, Zhao, Y, Pan, Z, Suomalainen, S, Härkönen, A, Guina, M, Griebner, U, Wang, L, Loiko, P, Mateos, X, Chen, W & Petrov, V 2020, 73-fs SESAM mode-locked Tm,Ho:CNCG laser at 2061 nm. in WA Clarkson & RK Shori (eds), *Solid State Lasers XXIX: Technology and Devices.*, 1125929, Proceedings of SPIE - The International Society for Optical Engineering, vol. 11259, SPIE, Solid State Lasers XXIX: Technology and Devices, San Francisco, United States, 4/02/20. <https://doi.org/10.1117/12.2548180>
- Kanellis, G, Oksanen, A & Kontinen, J 2020, 'Adjoint-based optimization in the development of low-emission industrial boilers', *Engineering Optimization*. <https://doi.org/10.1080/0305215X.2020.1781842>

Phung, HM, Kahle, H, Penttinen, J-P, Rajala, P, Ranta, S & Guina, M 2020, A membrane external-cavity surface-emitting laser (MECSEL) with emission around 825 nm. in JE Hastie (ed.), *Vertical External Cavity Surface Emitting Lasers (VECSELs) X*, 112630H, Proceedings of SPIE - The International Society for Optical Engineering, vol. 11263, SPIE, Vertical External Cavity Surface Emitting Lasers (VECSELs) X, San Francisco, United States, 4/02/20. <https://doi.org/10.1117/12.2545980>

Yan, S, Wirta, J & Kämäräinen, J-K 2020, 'Anthropometric clothing measurements from 3D body scans', *Machine Vision and Applications*, vol. 31, no. 1-2, 7. <https://doi.org/10.1007/s00138-019-01054-4>

Kulya, MS, Katkovnik, V, Egiazarian, K & Petrov, NV 2020, Complex-domain sparse imaging in terahertz pulse time-domain holography with balance detection. in LP Sadwick & T Yang (eds), *Terahertz, RF, Millimeter, and Submillimeter-Wave Technology and Applications XIII*, 1127921, Proceedings of SPIE, vol. 11279, SPIE, Terahertz, RF, Millimeter, and Submillimeter-Wave Technology and Applications, San Francisco, United States, 3/02/20. <https://doi.org/10.1117/12.2549001>

Vainio, M 2020, Continuous-wave optical parametric oscillators for mid-infrared spectroscopy. in PG Schunemann & KL Schepler (eds), *Nonlinear Frequency Generation and Conversion: Materials and Devices XIX*, 1126419, Proceedings of SPIE - The International Society for Optical Engineering, vol. 11264, SPIE, Nonlinear Frequency Generation and Conversion: Materials and Devices, San Francisco, United States, 3/02/20. <https://doi.org/10.1117/12.2548711>

Malik, A, Dhir, A, Kaur, P & Johri, A 2020, 'Correlates of social media fatigue and academic performance decrement: A large cross-sectional study', *INFORMATION TECHNOLOGY AND PEOPLE*. <https://doi.org/10.1108/ITP-06-2019-0289>

Nejadsattari, F, Zhang, Y, Jayakody, MN, Bouchard, F, Larocque, H, Sit, A, Fickler, R, Cohen, E & Karimi, E 2020, Cyclic quantum walks: Photonic realization and decoherence analysis. in PR Hemmer, AL Migdall & ZU Hasan (eds), *Advanced Optical Techniques for Quantum Information, Sensing, and Metrology*, 1129503, Proceedings of SPIE - The International Society for Optical Engineering, vol. 11295, SPIE, Advanced Optical Techniques for Quantum Information, Sensing, and Metrology, San Francisco, United States, 4/02/20. <https://doi.org/10.1117/12.2546566>

Nanni, L, Maguolo, G & Paci, M 2020, 'Data augmentation approaches for improving animal audio classification', *Ecological Informatics*, vol. 57, 101084. <https://doi.org/10.1016/j.ecoinf.2020.101084>

Jylhä, H & Hamari, J 2020, 'Development of measurement instrument for visual qualities of graphical user interface elements (VISQUAL): a test in the context of mobile game icons', *User Modeling and User-Adapted Interaction*. <https://doi.org/10.1007/s11257-020-09263-7>

Ali, I, Durmush, A, Suominen, O, Yli-Hietanen, J, Peltonen, S, Collin, J & Gotchev, A 2020, 'FinnForest dataset: A forest landscape for visual SLAM', *ROBOTICS AND AUTONOMOUS SYSTEMS*, vol. 132, 103610. <https://doi.org/10.1016/j.robot.2020.103610>

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

Elfgen, S, Rasilo, P & Hameyer, K 2020, 'Hysteresis and eddy-current losses in electrical steel utilising edge degradation due to cutting effects', *International Journal of Numerical Modelling: Electronic Networks, Devices and Fields*. <https://doi.org/10.1002/jnm.2781>

Gao, H, Tao, J, Dehmer, M, Emmert-Streib, F, Sun, Q, Chen, Z, Xie, G & Zhou, Q 2020, 'In-flight wind field identification and prediction of parafoil systems', *Applied Sciences (Switzerland)*, vol. 10, no. 6, 1958. <https://doi.org/10.3390/app10061958>

Andreev, S, Dobre, C & Misra, P 2020, 'Internet of Things and Sensor Networks', *IEEE Communications Magazine*, vol. 58, no. 2, pp. 34-34. <https://doi.org/10.1109/MCOM.2020.8999424>

Lenk, K, Gleirscher, M, Nestler, S, Rödiger, S, Petersen, T & Loebel, JM 2020, 'Lage und Zukunft des wissenschaftlichen Nachwuchses: Eine Stellungnahme des Beirats des Wissenschaftlichen Nachwuchses (WiN) der Gesellschaft für Informatik (GI e.V.)', *Informatik-Spektrum*, vol. 43, no. 2, pp. 94–102. <https://doi.org/10.1007/s00287-020-01250-x>

Hemmilä, S, Ruponen, M, Toropainen, E, Tengvall-Unadike, U, Urtili, A & Kallio, P 2020, 'Microflow-Based Device for In Vitro and Ex Vivo Drug Permeability Studies', *SLAS Technology*. <https://doi.org/10.1177/2472630320916190>

Moloudian, G, Miri Rostami, SR & Björninen, T 2020, 'Modified Wilkinson power divider with harmonics suppression and compact size for GSM applications', *International Journal of RF and Microwave Computer-Aided Engineering*. <https://doi.org/10.1002/mmce.22209>

Lauri, M, Pajarinen, J, Peters, J & Frintrop, S 2020, 'Multi-sensor next-best-view planning as matroid-constrained submodular maximization', *IEEE Robotics and Automation Letters*, vol. 5, no. 4, pp. 5323-5330. <https://doi.org/10.1109/LRA.2020.3007445>

Baldassarre, MT, Lenarduzzi, V, Romano, S & Saarimäki, N 2020, 'On the diffuseness of technical debt items and accuracy of remediation time when using SonarQube', *Information and Software Technology*, vol. 128, 106377. <https://doi.org/10.1016/j.infsof.2020.106377>

Taibi, D, El Ioini, N, Pahl, C & Niederkofler, JRS 2020, Patterns for serverless functions (Function-as-a-Service): A multivocal literature review. in D Ferguson, M Helfert & C Pahl (eds), *CLOSER 2020 - Proceedings of the 10th International Conference on Cloud Computing and Services Science*. vol. 1, SCITEPRESS, pp. 181-192, International Conference on Cloud Computing and Services Science, Virtual, Online, 7/05/20. <https://doi.org/10.5220/0009578501810192>

Pajarinen, J, Arenz, O, Peters, J & Neumann, G 2020, 'Probabilistic approach to physical object disentangling', *IEEE Robotics and Automation Letters*, vol. 5, no. 4, pp. 5510-5517. <https://doi.org/10.1109/LRA.2020.3006789>

Kulya, MS, Sokolenko, B, Gorodetsky, A & Petrov, NV 2020, Propagation dynamics of ultrabroadband terahertz beams with orbital angular momentum for wireless data transfer. in BB Dingel, K Tsukamoto & S Mikroulis (eds), *Broadband Access Communication Technologies XIV.*, 113070J, Proceedings of SPIE - The International Society for Optical Engineering, vol. 11307, SPIE, Broadband Access Communication Technologies, San Francisco, United States, 4/02/20. <https://doi.org/10.1117/12.2547695>

Mäkinen, P, Mustalahti, P, Launis, S & Mattila, J 2020, Redundancy-based visual tool center point pose estimation for long-reach manipulators. in *2020 IEEE/ASME International Conference on Advanced Intelligent Mechatronics, AIM 2020*. IEEE/ASME International Conference on Advanced Intelligent Mechatronics, IEEE, pp. 1387-1393, IEEE/ASME International Conference on Advanced Intelligent Mechatronics, Boston, United States, 6/07/20. <https://doi.org/10.1109/AIM43001.2020.9159022>

Neri, M, Perttu, L, Alanen, M, Luscietti, D & Pilotelli, M 2020, Safety at chimney-roof penetration: A numerical investigation . in G Pernigotto, F Patuzzi, A Prada, V Corrado & A Gasparella (eds), *Building Simulation Applications, BSA 2019 - 4th IBPSA-Italy Conference*. Building Simulation Applications, vol. 2020-June, Free University of Bozen Bolzano, pp. 123-130, IBPSA-Italy conference on Building Simulation Applications, Bozen-Bolzano, Italy, 19/06/20.

Fu, S, Li, H, Liu, Y, Pirkkalainen, H & Salo, M 2020, 'Social media overload, exhaustion, and use discontinuance: Examining the effects of information overload, system feature overload, and social overload', *INFORMATION PROCESSING AND MANAGEMENT*, vol. 57, no. 6, 102307. <https://doi.org/10.1016/j.ipm.2020.102307>

Urama, J, Wiren, R, Galinina, O, Kauppi, J, Hiltunen, K, Erkkilä, J, Chernogorov, F, Eteläaho, P, Heikkilä, M, Torsner, J, Andreev, S & Valkama, M 2020, 'UAV-Aided Interference Assessment for Private 5G NR Deployments: Challenges and Solutions', *IEEE Communications Magazine*, vol. 58, no. 8, pp. 89-95. <https://doi.org/10.1109/MCOM.001.2000042>

Deng, S, Jiang, Y, Li, H & Liu, Y 2020, 'Who contributes what? Scrutinizing the activity data of 4.2 million Zhihu users via immersion scores', *INFORMATION PROCESSING AND MANAGEMENT*, vol. 57, no. 5, 102274. <https://doi.org/10.1016/j.ipm.2020.102274>

Wang, W, Talvitie, J, Adamova, EJ, Fath, T, Korenciak, L, Valkama, M & Lohan, ES 2019, 'Empowering Heterogeneous Communication Data Links in General Aviation through mmWave Signals', *IEEE Wireless Communications*, vol. 26, no. 6, 8926332, pp. 164-171. <https://doi.org/10.1109/MWC.0001.1800593>

Deng, S, Tong, J, Lin, Y, Li, H & Liu, Y 2019, 'Motivating scholars' responses in academic social networking sites: An empirical study on ResearchGate Q&A behavior', *INFORMATION PROCESSING AND MANAGEMENT*, vol. 56, no. 6, 102082. <https://doi.org/10.1016/j.ipm.2019.102082>

Motlagh, HDK, Lotfi, F, Taghirad, HD & Germi, SB 2019, Position Estimation for Drones based on Visual SLAM and IMU in GPS-denied Environment. in *ICRoM 2019 - 7th International Conference on Robotics and Mechatronics*. IEEE, pp. 120-124, 7th International Conference on Robotics and Mechatronics, ICRoM 2019, Tehran, Iran, Islamic Republic of, 20/11/19. <https://doi.org/10.1109/ICRoM48714.2019.9071826>

Pirkkalainen, H, Salo, M, Tarafdar, M & Makkonen, M 2019, 'Deliberate or Instinctive? Proactive and Reactive Coping for Technostress', *Journal of Management Information Systems*, vol. 36, no. 4, pp. 1179-1212. <https://doi.org/10.1080/07421222.2019.1661092>

Räsänen, O, Seshadri, S, Karadayi, J, Riebling, E, Bunce, J, Cristia, A, Metze, F, Casillas, M, Rosemberg, C, Bergelson, E & Soderstrom, M 2019, 'Automatic word count estimation from daylong child-centered recordings in various language environments using language-independent syllabification of speech', *Speech Communication*, vol. 113, pp. 63-80. <https://doi.org/10.1016/j.specom.2019.08.005>

Lwakatare, LE, Kilamo, T, Karvonen, T, Sauvola, T, Heikkilä, V, Itkonen, J, Kuvaja, P, Mikkonen, T, Oivo, M & Lassenius, C 2019, 'DevOps in practice: A multiple case study of five companies', *Information and Software Technology*, vol. 114, pp. 217-230. <https://doi.org/10.1016/j.infsof.2019.06.010>

De Oliveira, MT, Michalas, A, Groot, AED, Marquering, HA & Olabarriga, SD 2019, Red Alert: Break-Glass Protocol to Access Encrypted Medical Records in the Cloud. in *2019 IEEE International Conference on E-Health Networking, Application and Services, HealthCom 2019.*, 9009598, IEEE, 21st IEEE International Conference on E-Health Networking, Application and Services, HealthCom 2019, Bogota, Colombia, 14/10/19. <https://doi.org/10.1109/HealthCom46333.2019.9009598>

Andreev, S & Dobre, C 2019, 'The Internet of Things and Sensor Networks', *IEEE Communications Magazine*, vol. 57, no. 9, pp. 70-70. <https://doi.org/10.1109/MCOM.2019.8847229>

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

Jameel, F, Chang, Z, Huang, J & Ristaniemi, T 2019, 'Internet of Autonomous Vehicles: Architecture, Features, and Socio-Technological Challenges', *IEEE Wireless Communications*, vol. 26, no. 4, 8809655, pp. 21-29. <https://doi.org/10.1109/MWC.2019.1800522>

Yang, D, Qian, Y, Cai, D, Yan, S, Kämäräinen, J-K & Chen, K 2019, Visibility-Aware Part Coding for Vehicle Viewing Angle Estimation. in *9th International Conference on Information Science and Technology, ICIST 2019*. IEEE, pp. 65-70, IEEE International Conference on Information Science and Technology, Hulunbuir, China, 2/08/19. <https://doi.org/10.1109/ICIST.2019.8836907>

Robertsén, F, Mattila, K & Westerholm, J 2019, 'High-performance SIMD implementation of the lattice-Boltzmann method on the Xeon Phi processor', *Concurrency Computation*, vol. 31, no. 13, e5072. <https://doi.org/10.1002/cpe.5072>

- Sylari, A, Ferrer, BR & Lastra, JLM 2019, Hand gesture-based on-line programming of industrial robot manipulators. in *2019 IEEE 17th International Conference on Industrial Informatics, INDIN 2019*. IEEE International Conference on Industrial Informatics (INDIN), IEEE, pp. 827-834, IEEE International Conference on Industrial Informatics, Helsinki, Finland, 22/07/19. <https://doi.org/10.1109/INDIN41052.2019.8972301>
- Tahir, MA, Mahmoodpour, M & Lobov, A 2019, KPI-ML based integration of industrial information systems. in *2019 IEEE 17th International Conference on Industrial Informatics, INDIN 2019*. IEEE International Conference on Industrial Informatics (INDIN), vol. 2019-July, IEEE, pp. 93-99, IEEE International Conference on Industrial Informatics, Helsinki, Finland, 22/07/19. <https://doi.org/10.1109/INDIN41052.2019.8972139>
- Gao, Y, Bregovic, R, Gotchev, A & Koch, R 2019, MAST: Mask-accelerated shearlet transform for densely-sampled light field reconstruction. in *2019 IEEE International Conference on Multimedia and Expo, ICME 2019*. IEEE, pp. 187-192, IEEE International Conference on Multimedia and Expo, Shanghai, China, 8/07/19. <https://doi.org/10.1109/ICME.2019.00040>
- Godbole, TR, Calvo-Fullana, M, Pyattaev, A, Mox, D, Andreev, S, Ribeiro, A & Valkama, M 2019, Modeling mmWave Channels in High-Fidelity Simulations of Unmanned Aerial Systems. in *2019 IEEE 20th International Workshop on Signal Processing Advances in Wireless Communications, SPAWC 2019*. IEEE International Workshop on Signal Processing Advances in Wireless Communications, IEEE, IEEE International Workshop on Signal Processing Advances in Wireless Communications, Cannes, France, 2/07/19. <https://doi.org/10.1109/SPAWC.2019.8815528>
- Zhu, L, Wang, T, Aksu, E & Kämäräinen, J-K 2019, Portrait instance segmentation for mobile devices. in *2019 IEEE International Conference on Multimedia and Expo, ICME 2019*. IEEE, pp. 1630-1635, IEEE International Conference on Multimedia and Expo, Shanghai, China, 8/07/19. <https://doi.org/10.1109/ICME.2019.00281>
- Mäkelä, V, Linna, J, Keskinen, T, Hakulinen, J & Turunen, M 2019, Acceptance and perceptions of interactive location-tracking displays. in V Gentile & JR Cauchard (eds), *Pervasive Displays 2019 - 8th ACM International Symposium on Pervasive Displays, PerDis 2019*, a17, ACM, ACM International Symposium on Pervasive Displays, Palermo, Italy, 12/06/19. <https://doi.org/10.1145/3321335.3324931>
- Marcían, P, Narra, N, Borák, L, Chamrad, J & Wolff, J 2019, 'Biomechanical performance of cranial implants with different thicknesses and material properties: A finite element study', *Computers in Biology and Medicine*, vol. 109, pp. 43-52. <https://doi.org/10.1016/j.compbiomed.2019.04.016>
- Mikhaylov, K, Petrov, V, Gupta, R, Lema, MA, Galinina, O, Andreev, S, Koucheryavy, Y, Valkama, M, Pouttu, A & Dohler, M 2019, 'Energy Efficiency of Multi-Radio Massive Machine-Type Communication (MR-MMTC): Applications, Challenges, and Solutions', *IEEE Communications Magazine*, vol. 57, no. 6, 8694791, pp. 100-106. <https://doi.org/10.1109/MCOM.2019.1800394>
- Amato, G, Falchi, F, Gennaro, C, Massoli, FV, Passalis, N, Tefas, A, Trivilini, A & Vairo, C 2019, Face verification and recognition for digital forensics and information security. in A Varol, M Karabatak, C Varol & S Teke (eds), *7th International Symposium on Digital Forensics and Security, ISDFS 2019*. IEEE, International Symposium on Digital Forensics and Security, Barcelos, Portugal, 10/06/19. <https://doi.org/10.1109/ISDFS.2019.8757511>
- Andreev, S, Petrov, V, Dohler, M & Yanikomeroglu, H 2019, 'Future of Ultra-Dense Networks Beyond 5G: Harnessing Heterogeneous Moving Cells', *IEEE Communications Magazine*, vol. 57, no. 6, 8722593, pp. 66-92. <https://doi.org/10.1109/MCOM.2019.1800056>
- 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*, vol. 6, no. 3, pp. 5172-5183. <https://doi.org/10.1109/JIOT.2019.2898420>
- Humaloja, JP, Kurula, M & Paunonen, L 2019, 'Approximate robust output regulation of boundary control systems', *IEEE Transactions on Automatic Control*, vol. 64, no. 6, pp. 2210-2223. <https://doi.org/10.1109/TAC.2018.2884676>

- Petrov, V, Fodor, G, Kokkonen, J, Moltchanov, D, Lehtomäki, J, Andreev, S, Koucheryavy, Y, Juntti, M & Valkama, M 2019, 'On Unified Vehicular Communications and Radar Sensing in Millimeter-Wave and Low Terahertz Bands', *IEEE Wireless Communications*, vol. 26, no. 3, 8722599, pp. 146-153. <https://doi.org/10.1109/MWC.2019.1800328>
- Lunden, O-P & Paldanius, T 2019, Linearization of BJTs with logarithmic predistortion. in *2019 IEEE Radio and Wireless Symposium, RWS 2019*. IEEE Radio and Wireless Symposium, RWS, IEEE, IEEE Radio and Wireless Symposium, Orlando, United States, 20/01/19. <https://doi.org/10.1109/RWS.2019.8714520>
- Barneto, CB, Anttila, L, Fleischer, M & Valkama, M 2019, OFDM radar with LTE waveform: Processing and performance. in *2019 IEEE Radio and Wireless Symposium, RWS 2019.*, 8714410, IEEE Radio and Wireless Symposium, RWS, IEEE COMPUTER SOCIETY PRESS, IEEE Radio and Wireless Symposium, Orlando, United States, 20/01/19. <https://doi.org/10.1109/RWS.2019.8714410>
- Heinisuo, O-P, Lenarduzzi, V & Taibi, D 2019, Asterism: Decentralized file sharing application for mobile devices. in *2019 7th IEEE International Conference on Mobile Cloud Computing, Services, and Engineering, MobileCloud 2019*. IEEE, pp. 38-47, IEEE International Conference on Mobile Cloud Computing, Services, and Engineering, Newark, United States, 4/04/19. <https://doi.org/10.1109/MobileCloud.2019.00013>
- Andreev, S, Petrov, V, Huang, K, Lema, MA & Dohler, M 2019, 'Dense Moving Fog for Intelligent IoT: Key Challenges and Opportunities', *IEEE Communications Magazine*, vol. 57, no. 5, 8648449, pp. 34-41. <https://doi.org/10.1109/MCOM.2019.1800226>
- Li, S, Bariah, L, Muhaidat, S, Sofotasios, P, Liang, J & Wang, A 2019, Error analysis of NOMA-based user cooperation with SWIPT. in *Proceedings - 15th Annual International Conference on Distributed Computing in Sensor Systems, DCOSS 2019*. IEEE, pp. 507-513, Annual International Conference on Distributed Computing in Sensor Systems, Santorini Island, Greece, 29/05/19. <https://doi.org/10.1109/DCOSS.2019.00098>
- Peltokangas, M, Suominen, V, Vakhitov, D, Korhonen, J, Verho, J, Mattila, VM, Ronsi, P, Lekkala, J, Vehkaoja, A & Oksala, N 2019, 'Effects of percutaneous transluminal angioplasty of superficial femoral artery on photoplethysmographic pulse transit times', *IEEE Journal of Biomedical and Health Informatics*, vol. 23, no. 3, pp. 1058-1065. <https://doi.org/10.1109/JBHI.2018.2851388>
- De Biasi, M & Lauri, J 2019, 'On the complexity of restoring corrupted colorings', *Journal of Combinatorial Optimization*, vol. 37, no. 4, pp. 1150-1169. <https://doi.org/10.1007/s10878-018-0342-2>
- Koivumäki, J, Zhu, WH & Mattila, J 2019, 'Energy-efficient and high-precision control of hydraulic robots', *Control Engineering Practice*, vol. 85, pp. 176-193. <https://doi.org/10.1016/j.conengprac.2018.12.013>
- Wu, D, Coatanea, E & Wang, GG 2019, 'Employing Knowledge on Causal Relationship to Assist Multidisciplinary Design Optimization', *Journal of Mechanical Design, Transactions of the ASME*, vol. 141, no. 4, 041402. <https://doi.org/10.1115/1.4042342>
- Melekhov, I, Tiulpin, A, Sattler, T, Pollefeys, M, Rahtu, E & Kannala, J 2019, DGC-Net: Dense geometric correspondence network. in *2019 IEEE Winter Conference on Applications of Computer Vision, WACV 2019*. IEEE Winter Conference on Applications of Computer Vision, IEEE, pp. 1034-1042, IEEE Winter Conference on Applications of Computer Vision, Waikoloa Village, United States, 7/01/19. <https://doi.org/10.1109/WACV.2019.00115>
- Tavakoli, HR, Rahtu, E, Kannala, J & Borji, A 2019, Digging deeper into egocentric gaze prediction. in *2019 IEEE Winter Conference on Applications of Computer Vision, WACV 2019*. IEEE Winter Conference on Applications of Computer Vision, IEEE, pp. 273-282, IEEE Winter Conference on Applications of Computer Vision, Waikoloa Village, United States, 7/01/19. <https://doi.org/10.1109/WACV.2019.00035>
- Heimbirger, A, Isomottonen, V, Nieminen, P & Keto, H 2019, How do academics experience use of recorded audio feedback in higher education? A thematic analysis. in *Frontiers in Education: Fostering Innovation Through Diversity, FIE 2018 - Conference Proceedings.*, 8658635, Proceedings - Frontiers in Education Conference, IEEE, Frontiers in Education Conference, San Jose, United States, 3/10/18. <https://doi.org/10.1109/FIE.2018.8658635>

Smirnov, S, Battisti, F & Gotchev, A 2019, 'Layered approach for improving the quality of free-viewpoint depth-image-based rendering images', *Journal of Electronic Imaging*, vol. 28, no. 1, 013049. <https://doi.org/10.1117/1.JEI.28.1.013049>

Liimatainen, K, Kananen, L, Latonen, L & Ruusuvuori, P 2019, 'Iterative unsupervised domain adaptation for generalized cell detection from brightfield z-stacks', *BMC Bioinformatics*, vol. 20, no. 1, 80. <https://doi.org/10.1186/s12859-019-2605-z>

Sievi-Korte, O, Beecham, S & Richardson, I 2019, 'Challenges and recommended practices for software architecting in global software development', *Information and Software Technology*, vol. 106, pp. 234-253. <https://doi.org/10.1016/j.infsof.2018.10.008>

Lobov, A & Haapala, KR 2019, Towards sustainable manufacturing by extending Manufacturing Execution System functions. in *2019 IEEE International Conference on Industrial Technology, ICIT 2019*. IEEE, pp. 1329-1335, IEEE International Conference on Industrial Technology, Melbourne, Australia, 13/02/19. <https://doi.org/10.1109/ICIT.2019.8755102>

Ponomarenko, M, Miroshnichenko, O, Lukin, V & Egiazarian, K 2019, Additional lossless compression of JPEG images based on BPG. in *Image Processing: Algorithms and Systems XVII*. IS and T International Symposium on Electronic Imaging Science and Technology, 17th Image Processing: Algorithms and Systems Conference, IPAS 2019, Burlingame, United States, 13/01/19. <https://doi.org/10.2352/ISSN.2470-1173.2019.11.IPAS-263>

Ieremeiev, O, Lukin, V, Ponomarenko, N & Egiazarian, K 2019, Combined no-reference IQA metric and its performance analysis. in *Image Processing: Algorithms and Systems XVII*. IS and T International Symposium on Electronic Imaging Science and Technology, 17th Image Processing: Algorithms and Systems Conference, IPAS 2019, Burlingame, United States, 13/01/19. <https://doi.org/10.2352/ISSN.2470-1173.2019.11.IPAS-260>

Ponomarenko, M, Katkovnik, V & Egiazarian, K 2019, Phase masks optimization for broadband diffractive imaging. in *Image Processing: Algorithms and Systems XVII*. IS and T International Symposium on Electronic Imaging Science and Technology, 17th Image Processing: Algorithms and Systems Conference, IPAS 2019, Burlingame, United States, 13/01/19. <https://doi.org/10.2352/ISSN.2470-1173.2019.11.IPAS-258>

Akpınar, U, Sahin, E, Suominen, O & Gotchev, A 2019, Thin form-factor super multiview head-up display system. in *Stereoscopic Displays and Applications XXX*. IS&T International Symposium on Electronic Imaging, Stereoscopic Displays and Applications Conference, Burlingame, United States, 13/01/19. <https://doi.org/10.2352/ISSN.2470-1173.2019.3.SDA-631>

Begishev, VO, Sopin, ES, Molchanov, DA, Samouylov, AK, Gaidamaka, YV & Samouylov, KE 2019, 'Performance evaluation of bandwidth reservation for mmWave 5G NR systems', *Informatsionno-Upravliaiushchie Sistemy*, no. 5, pp. 51-63. <https://doi.org/10.31799/1684-8853-2019-5-51-63>

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

Viheriälä, J, Tuorila, H, Zia, N, Cherchi, M, Aalto, T & Guina, M 2019, 1.3µm U-bend traveling wave SOA devices for high efficiency coupling to silicon photonics. in GT Reed & AP Knights (eds), *Silicon Photonics XIV.*, 109230E, Proceedings of SPIE - The International Society for Optical Engineering, vol. 10923, SPIE, IEEE, Silicon Photonics, San Francisco, United States, 4/02/19. <https://doi.org/10.1117/12.2505935>

Mereuta, A, Nechay, K, Caliman, A, Suruceanu, G, Gallo, P, Guina, M & Kapon, E 2019, 1.55-µm wavelength wafer-fused OP-VECSELs in flip-chip configuration. in U Keller (ed.), *Vertical External Cavity Surface Emitting Lasers (VECSELs) IX.*, 1090103, Proceedings of SPIE - The International Society for Optical Engineering, vol. 10901, SPIE, IEEE, Vertical External Cavity Surface Emitting Lasers, San Francisco, United States, 5/02/19. <https://doi.org/10.1117/12.2508342>

- Yadav, A, Chichkov, NB, Gumenyuk, R, Zherebtsov, E, Melkumov, MA, Yashkov, MV, Dianov, EM & Rafailov, EU 2019, 405-nm pumped Ce³⁺-doped silica fiber for broadband fluorescence from cyan to red. in MJF Digonnet & S Jiang (eds), *Optical Components and Materials XVI.*, 1091406, Proceedings of SPIE - The International Society for Optical Engineering, vol. 10914, SPIE, IEEE, Optical Components and Materials, San Francisco, United States, 4/02/19. <https://doi.org/10.1117/12.2509599>
- Lu, X, Petrov, V, Moltchanov, D, Andreev, S, Mahmoodi, T & Dohler, M 2019, '5G-U: Conceptualizing Integrated Utilization of Licensed and Unlicensed Spectrum for Future IoT', *IEEE Communications Magazine*, vol. 57, no. 7, 8722595, pp. 92-98. <https://doi.org/10.1109/MCOM.2019.1800663>
- Georgiev, GY, Aho, T, Kesseli, J, Yli-Harja, O & Kauffman, SA 2019, Action and power efficiency in self-organization: The case for growth efficiency as a cellular objective in escherichia coli. in CL Flores Martinez, GY Georgiev, JM Smart & ME Price (eds), *Evolution, Development and Complexity - Multiscale Evolutionary Models of Complex Adaptive Systems*. Springer Proceedings in Complexity, Springer, pp. 229-244, Conference on Complex Systems, Cancun, Mexico, 17/09/17. https://doi.org/10.1007/978-3-030-00075-2_8
- Zakeri, FS, Bätz, M, Jaschke, T, Keinert, J & Chuchvara, A 2019, Benchmarking of several disparity estimation algorithms for light field processing. in S Bazeille, N Verrier & C Cudel (eds), *Fourteenth International Conference on Quality Control by Artificial Vision.*, 111721C, Proceedings of SPIE - The International Society for Optical Engineering, vol. 11172, SPIE, IEEE, International Conference on Quality Control by Artificial Vision, Mulhouse, France, 15/05/19. <https://doi.org/10.1117/12.2521747>
- Soltani, A, Lahti, J, Järvelä, K, Laurikka, J, Kuokkala, VT & Hokka, M 2019, 'Characterization of the anisotropic deformation of the right ventricle during open heart surgery', *COMPUTER METHODS IN BIOMECHANICS AND BIOMEDICAL ENGINEERING*. <https://doi.org/10.1080/10255842.2019.1703133>
- Niemelä, P, Partanen, T, Toivanen, T, Toikkanen, T, Kangas, V & Översti, M 2019, Code ABC hackathons: Teachers as tinkerers. in *Digital Turn in Schools - Research, Policy, Practice: Proceedings of ICEM 2018 Conference*. Lecture Notes in Educational Technology, Springer International Publishing, pp. 157-169, Annual Conference of the International Council of Educational Media, Tallinn, Estonia, 5/09/18. https://doi.org/10.1007/978-981-13-7361-9_11
- Laakom, F, Raitoharju, J, Iosifidis, A, Nikkanen, J & Gabbouj, M 2019, Color Constancy Convolutional Autoencoder. in *2019 IEEE Symposium Series on Computational Intelligence, SSCI 2019.*, 9002684, IEEE, pp. 1085-1090, IEEE Symposium Series on Computational Intelligence, 1/01/00. <https://doi.org/10.1109/SSCI44817.2019.9002684>
- Woldemariam, ET, Coatanéa, E, Wang, GG, Lemu, HG & Wu, D 2019, 'Customized dimensional analysis conceptual modelling framework for design optimization—a case study on the cross-flow micro turbine model', *Engineering Optimization*, vol. 51, no. 7, pp. 1168-1184. <https://doi.org/10.1080/0305215X.2018.1519556>
- Tavella, F, Giaretta, A, Dooley-Cullinane, TM, Conti, M, Coffey, L & Balasubramaniam, S 2019, 'DNA Molecular Storage System: Transferring Digitally Encoded Information through Bacterial Nanonetworks', *IEEE Transactions on Emerging Topics in Computing*. <https://doi.org/10.1109/TETC.2019.2932685>
- Kuusisto, A & Reiter, F 2019, 'Emptiness problems for distributed automata', *Information and Computation*. <https://doi.org/10.1016/j.ic.2019.104503>
- Danivska, V, Heywood, C, Christersson, M, Zhang, E & Nenonen, S 2019, 'Environmental and social sustainability—emergence of well-being in the built environment, assessment tools and real estate market implications', *Intelligent Buildings International*. <https://doi.org/10.1080/17508975.2019.1678005>
- Joshy, A, Dsouza, R, Muthirulan, V & Sachidananda, KH 2019, 'Experimental analysis on the turning of aluminum alloy 7075 based on Taguchi method and artificial neural network', *Journal European des Systemes Automatisés*, vol. 52, no. 5, pp. 429-437. <https://doi.org/10.18280/jesa.520501>

- Taibi, D & Systä, K 2019, From monolithic systems to microservices: A decomposition framework based on process mining. in D Ferguson, VM Munoz, M Helfert & C Pahl (eds), *CLOSER 2019 - Proceedings of the 9th International Conference on Cloud Computing and Services Science*. SCITEPRESS, pp. 153-164, International Conference on Cloud Computing and Services Science, Heraklion, Crete, Greece, 2/05/19. <https://doi.org/10.5220/0007755901530164>
- Heikkinen, JE, Gafurov, S, Kopylov, S, Minav, T, Grebennikov, S & Kurbanov, A 2019, Hardware-in-the-loop platform for testing autonomous vehicle control algorithms. in D Al-Jumeily, J Hind, J Mustafina, A Al-Hajj, A Hussain, E Magid & H Tawfik (eds), *Proceedings - 12th International Conference on the Developments in eSystems Engineering, DeSE 2019.*, 9073320, International Conference on Developments in eSystems Engineering, DeSE, IEEE, pp. 906-911, International Conference on the Developments in eSystems Engineering, Kazan, Russian Federation, 7/10/19. <https://doi.org/10.1109/DeSE.2019.00168>
- Pitkänen, TP, Raunonen, P & Kangas, A 2019, 'Measuring stem diameters with TLS in boreal forests by complementary fitting procedure', *ISPRS Journal of Photogrammetry and Remote Sensing*, vol. 147, pp. 294-306. <https://doi.org/10.1016/j.isprsjprs.2018.11.027>
- Kahle, H, Penttinen, JP, Phung, HM, Rajala, P, Tukiainen, A, Ranta, S & Guina, M 2019, MECSELS with direct emission in the 760 nm to 810 nm spectral range: A single- and double-side pumping comparison and high-power continuous-wave operation. in U Keller (ed.), *Vertical External Cavity Surface Emitting Lasers (VECSELS) IX.*, 109010D, Proceedings of SPIE - The International Society for Optical Engineering, vol. 10901, SPIE, IEEE, Vertical External Cavity Surface Emitting Lasers, San Francisco, United States, 5/02/19. <https://doi.org/10.1117/12.2512111>
- Kuva, J, Voutilainen, M & Mattila, K 2019, 'Modeling mass transfer in fracture flows with the time domain-random walk method', *COMPUTATIONAL GEOSCIENCES*. <https://doi.org/10.1007/s10596-019-09852-5>
- Radevici, I, Sadi, T, Tripurari, T, Tiira, J, Ranta, S, Tukiainen, A, Guina, M & Oksanen, J 2019, Observation of local electroluminescent cooling and identifying the remaining challenges. in DV Seletskiy, RI Epstein & M Sheik-Bahae (eds), *Photonic Heat Engines: Science and Applications.*, 109360A, Proceedings of SPIE - The International Society for Optical Engineering, vol. 10936, SPIE, IEEE, Photonic Heat Engines: Science and Applications, San Francisco, United States, 3/02/19. <https://doi.org/10.1117/12.2505814>
- Raitoharju, J & Meissner, K 2019, On Confidences and Their Use in (Semi-)Automatic Multi-Image Taxa Identification. in *2019 IEEE Symposium Series on Computational Intelligence, SSCI 2019.*, 9002975, IEEE, pp. 1338-1343, IEEE Symposium Series on Computational Intelligence, 1/01/00. <https://doi.org/10.1109/SSCI44817.2019.9002975>
- Talvitie, J, Levanen, T, Koivisto, M, Ihalainen, T, Pajukoski, K & Valkama, M 2019, 'Positioning and Location-Aware Communications for Modern Railways with 5G New Radio', *IEEE Communications Magazine*, vol. 57, no. 9, pp. 24-30. <https://doi.org/10.1109/MCOM.001.1800954>
- Martins, DP, Barros, MT & Balasubramaniam, S 2019, 'Quality and Capacity Analysis of Molecular Communications in Bacterial Synthetic Logic Circuits', *IEEE Transactions on Nanobioscience*. <https://doi.org/10.1109/TNB.2019.2930960>
- Qian, Y, Pertuz, S, Nikkanen, J, Kämäräinen, J-K & Matas, J 2019, Revisiting gray pixel for statistical illumination estimation. in A Kerren, C Hurter & J Braz (eds), *VISIGRAPP 2019 - Proceedings of the 14th International Joint Conference on Computer Vision, Imaging and Computer Graphics Theory and Applications*. SCITEPRESS, pp. 36-46, International Conference on Computer Vision Theory and Applications, Prague, Czech Republic, 25/02/19. <https://doi.org/10.5220/0007406900360046>
- Saleh, A, Ryczkowski, P, Genty, G & Toivonen, J 2019, Short-range supercontinuum based lidar for combustion diagnostics. in M Kimata & CR Valenta (eds), *SPIE Future Sensing Technologies.*, 111970Y, Proceedings of SPIE, vol. 11197, SPIE, IEEE, SPIE Future Sensing Technologies, Tokyo, Japan, 14/11/19. <https://doi.org/10.1117/12.2542720>
- Kocsis, P, Shevkunov, I, Katkovnik, V & Egiazarian, K 2019, Single exposure lensless subpixel phase imaging. in BC Kress & P Schelkens (eds), *Digital Optical Technologies 2019*. Proceedings of SPIE - The International Society for Optical Engineering, vol. 11062, SPIE, IEEE, Digital Optical Technologies, Munich, Germany, 24/06/19. <https://doi.org/10.1117/12.2525679>

Ainasoja, AE, Pertuz, S & Kämäräinen, J-K 2019, Smartphone teleoperation for self-balancing telepresence robots. in A Kerren, C Hurter & J Braz (eds), *VISIGRAPP 2019 - Proceedings of the 14th International Joint Conference on Computer Vision, Imaging and Computer Graphics Theory and Applications*. SCITEPRESS, pp. 561-568, International Conference on Computer Vision Theory and Applications, Prague, Czech Republic, 25/02/19. <https://doi.org/10.5220/0007406405610568>

Xu, L, Saerens, G, Timofeeva, M, Miroshnichenko, AE, Camacho-Morales, R, Volkovskaya, I, Smirnova, DA, Lysevych, M, Huang, L, Cai, M, Karouta, F, Hoe Tan, H, Kauranen, M, Jagadish, C, Grange, R, Neshev, DN & Rahmani, M 2019, Switchable unidirectional second-harmonic emission through GaAs nanoantennas. in A Mitchell & H Rubinsztein-Dunlop (eds), *AOS Australian Conference on Optical Fibre Technology, ACOFT 2019 and Australian Conference on Optics, Lasers, and Spectroscopy, ACOLS 2019.*, 112000J, Proceedings of SPIE - The International Society for Optical Engineering, vol. 11200, SPIE, Australian Conference on Optical Fibre Technology and Australian Conference on Optics, Lasers, and Spectroscopy, Melbourne, Australia, 9/12/19. <https://doi.org/10.1117/12.2539887>

Sautter, J, Xu, L, Miroshnichenko, A, Lysevych, M, Volkovskaya, I, Smirnova, D, Camacho Morales, M, Zangeneh Kamali, K, Karouta, F, Vora, K, Tan, HH, Kauranen, M, Staude, I, Jagadish, C, Neshev, DN & Rahmani, M 2019, Tailoring directional scattering of second-harmonic generation from (111)-GaAs nanoantennas. in A Mitchell & H Rubinsztein-Dunlop (eds), *AOS Australian Conference on Optical Fibre Technology, ACOFT 2019 and Australian Conference on Optics, Lasers, and Spectroscopy, ACOLS 2019.*, 112000H, Proceedings of SPIE - The International Society for Optical Engineering, vol. 11200, SPIE, Australian Conference on Optical Fibre Technology and Australian Conference on Optics, Lasers, and Spectroscopy, Melbourne, Australia, 9/12/19. <https://doi.org/10.1117/12.2539086>

Hamari, J, Malik, A, Koski, J & Johri, A 2019, 'Uses and Gratifications of Pokémon Go: Why do People Play Mobile Location-Based Augmented Reality Games?', *International Journal of Human-Computer Interaction*, vol. 35, no. 9. <https://doi.org/10.1080/10447318.2018.1497115>

Martins, L, Neeli-Venkata, R, Oliveira, SMD, Häkkinen, A, Ribeiro, AS & Fonseca, JM 2018, 'SCIP: a single-cell image processor toolbox', *Bioinformatics*, vol. 34, no. 24, pp. 4318-4320. <https://doi.org/10.1093/bioinformatics/bty505>

Raunio, J-P & Ritala, R 2018, 'Active scanner control on paper machines', *Journal of Process Control*, vol. 72, pp. 74-90. <https://doi.org/10.1016/j.jprocont.2018.09.012>

Mäki, AJ, Verho, J, Kreutzer, J, Ryyänen, T, Rajan, D, Pekkanen-Mattila, M, Ahola, A, Hyttinen, J, Aalto-Setälä, K, Lekkala, J & Kallio, P 2018, 'A Portable Microscale Cell Culture System with Indirect Temperature Control', *SLAS Technology*, vol. 23, no. 6, pp. 566-579. <https://doi.org/10.1177/2472630318768710>

Slezak, C, Semkin, V, Andreev, S, Koucheryavy, Y & Rangan, S 2018, 'Empirical Effects of Dynamic Human-Body Blockage in 60 GHz Communications', *IEEE Communications Magazine*, vol. 56, no. 12, pp. 60-66. <https://doi.org/10.1109/MCOM.2018.1800232>

Mäenpää, H, Mäkinen, S, Kilamo, T, Mikkonen, T, Männistö, T & Ritala, P 2018, 'Organizing for openness: six models for developer involvement in hybrid OSS projects', *Journal of Internet Services and Applications*, vol. 9, no. 1, 17. <https://doi.org/10.1186/s13174-018-0088-1>

Lohan, ES, Koivisto, M, Galinina, O, Andreev, S, Tölli, A, Destino, G, Costa, M, Leppänen, K, Koucheryavy, Y & Valkama, M 2018, 'Benefits of Positioning-Aided Communication Technology in High-Frequency Industrial IoT', *IEEE Communications Magazine*, vol. 56, no. 12, 8535084, pp. 142-148. <https://doi.org/10.1109/MCOM.2018.1701057>

Ivanov, P, Raitoharju, M & Piché, R 2018, Kalman-Type Filters and Smoothers for Pedestrian Dead Reckoning. in *IPIN 2018 - 9th International Conference on Indoor Positioning and Indoor Navigation*. IEEE, International Conference on Indoor Positioning and Indoor Navigation, Nantes, France, 24/09/18. <https://doi.org/10.1109/IPIN.2018.8533753>

Nogueira, IBR, Faria, RPV, Requião, R, Koivisto, H, Martins, MAF, Rodrigues, AE, Loureiro, JM & Ribeiro, AM 2018, 'Chromatographic studies of n-Propyl Propionate: Adsorption equilibrium, modelling and uncertainties determination', *Computers and Chemical Engineering*, vol. 119, pp. 371-382. <https://doi.org/10.1016/j.compchemeng.2018.09.020>

Tiihonen, J, Kylänpää, I & Rantala, TT 2018, 'Computation of Dynamic Polarizabilities and van der Waals Coefficients from Path-Integral Monte Carlo', *Journal of Chemical Theory and Computation*, vol. 14, pp. 5750-5763. <https://doi.org/10.1021/acs.jctc.8b00859>

Salminen, K, Rantala, J, Isokoski, P, Lehtonen, M, Müller, P, Karjalainen, M, Väliäho, J, Kontunen, A, Nieminen, V, Leivo, J, Telembeci, AA, Lekkala, J, Kallio, P & Surakka, V 2018, Olfactory display prototype for presenting and sensing authentic and synthetic odors. in *ICMI 2018 - Proceedings of the 2018 International Conference on Multimodal Interaction*. ACM, pp. 73-77, ACM International Conference on Multimodal Interaction, Boulder, United States, 16/10/18. <https://doi.org/10.1145/3242969.3242999>

Petrov, V, Andreev, S, Gerla, M & Koucheryavy, Y 2018, 'Breaking the limits in urban video monitoring: Massive crowd sourced surveillance over vehicles', *IEEE Wireless Communications*, vol. 25, no. 5, pp. 104-112. <https://doi.org/10.1109/MWC.2018.1700415>

Pertuz, S, Pulido-Herrera, E & Kämäräinen, J-K 2018, 'Focus model for metric depth estimation in standard plenoptic cameras', *ISPRS Journal of Photogrammetry and Remote Sensing*, vol. 144, pp. 38-47. <https://doi.org/10.1016/j.isprsjprs.2018.06.020>

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

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*, vol. 5, no. 5, 8534720, pp. 3405-3407. <https://doi.org/10.1109/JIOT.2018.2875580>

Martins, DP, Leetanasaksakul, K, Barros, MT, Thamchaipenet, A, Donnelly, W & Balasubramaniam, S 2018, 'Molecular Communications Pulse-based Jamming Model for Bacterial Biofilm Suppression', *IEEE Transactions on Nanobioscience*, vol. 17, no. 4, pp. 533-542. <https://doi.org/10.1109/TNB.2018.2871276>

Kartasalo, K, Latonen, L, Vihinen, J, Visakorpi, T, Nykter, M & Ruusuvoori, P 2018, 'Comparative analysis of tissue reconstruction algorithms for 3D histology', *Bioinformatics*, vol. 34, no. 17, pp. 3013-3021. <https://doi.org/10.1093/bioinformatics/bty210>

Ratia, M 2018, 'Intellectual capital and bi-tools in private healthcare value creation', *Electronic Journal of Knowledge Management*, vol. 16, no. 2, pp. 143-154.

Milagro, J, Gil, E, Lazaro, J, Seppae, VP, Malmberg, LP, Pelkonen, AS, Kotaniemi-Syrjanen, A, Makela, M, Viik, J & Bailon, R 2018, 'Nocturnal Heart Rate Variability Spectrum Characterization in Preschool Children with Asthmatic Symptoms', *IEEE Journal of Biomedical and Health Informatics*, vol. 22, no. 5, pp. 1332-1340. <https://doi.org/10.1109/JBHI.2017.2775059>

Mäkinen, P, Mononen, T & Mattila, J 2018, Inertial Sensor-Based State Estimation of Flexible Links Subject to Bending and Torsion. in *2018 14th IEEE/ASME International Conference on Mechatronic and Embedded Systems and Applications, MESA 2018.*, 8449188, IEEE, IEEE/ASME International Conference on Mechatronic and Embedded Systems and Applications, Oulu, Finland, 2/07/18. <https://doi.org/10.1109/MESA.2018.8449188>

Teke, B, Lanz, M, Kämäräinen, J-K & Hietanen, A 2018, Real-time and Robust Collaborative Robot Motion Control with Microsoft Kinect® v2. in *2018 14th IEEE/ASME International Conference on Mechatronic and Embedded Systems and Applications, MESA 2018.*, 8449156, IEEE, IEEE/ASME International Conference on Mechatronic and Embedded Systems and Applications, Oulu, Finland, 2/07/18. <https://doi.org/10.1109/MESA.2018.8449156>

Mahmoodpour, M, Lobov, A, Lanz, M, Mäkelä, P & Rundas, N 2018, Role-based visualization of industrial IoT-based systems. in *2018 14th IEEE/ASME International Conference on Mechatronic and Embedded Systems and Applications, MESA 2018.*, 8449183, IEEE, IEEE/ASME International Conference on Mechatronic and Embedded Systems and Applications, Oulu, Finland, 2/07/18. <https://doi.org/10.1109/MESA.2018.8449183>

Coatanea, E & Roca, R 2018, Dimensional analysis conceptual modeling supporting adaptable reasoning in simulation-based training. in *2018 13th System of Systems Engineering Conference, SoSE 2018*. IEEE, pp. 245-252, System of Systems Engineering Conference, Paris, France, 19/06/18. <https://doi.org/10.1109/SYSOSE.2018.8428785>

Maina, MR, Okamoto, Y, Okada, A, Närhi, M, Kangastupa, J & Vihinen, J 2018, 'High surface quality welding of aluminum using adjustable ring-mode fiber laser', *Journal of Materials Processing Technology*, vol. 258, pp. 180-188. <https://doi.org/10.1016/j.jmatprotec.2018.03.030>

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*, vol. 20, no. 8, pp. 2000-2011. <https://doi.org/10.1109/TMM.2018.2794265>

Urama, J, Gerasimenko, M, Stusek, M, Masek, P, Andreev, S, Hosek, J & Koucheryavy, Y 2018, A multi-purpose automated vehicular platform with multi-radio connectivity capabilities. in *2018 IEEE 87th Vehicular Technology Conference, VTC Spring 2018*. IEEE, pp. 1-7, IEEE Vehicular Technology Conference, Porto, Portugal, 3/06/18. <https://doi.org/10.1109/VTCSpring.2018.8417708>

Sofotasios, PC, Yoo, SK, Muhaidat, S, Cotton, SL, Matthaiou, M, Valkama, M & Karagiannidis, GK 2018, Ergodic Capacity Analysis of Wireless Transmission over Generalized Multipath/Shadowing Channels. in *2018 IEEE 87th Vehicular Technology Conference*. IEEE, pp. 1-5, IEEE Vehicular Technology Conference, Porto, Portugal, 3/06/18. <https://doi.org/10.1109/VTCSpring.2018.8417509>

Marshoud, H, Muhaidat, S, Sofotasios, PC, Imran, M, Sharif, BS & Karagiannidis, GK 2018, Optical Asymmetric Modulation for VLC Systems - Invited Paper. in *2018 IEEE 87th Vehicular Technology Conference, VTC Spring 2018*. IEEE, pp. 1-5, IEEE Vehicular Technology Conference, Porto, Portugal, 3/06/18. <https://doi.org/10.1109/VTCSpring.2018.8417541>

Selim, B, Muhaidat, S, Sofotasios, PC, Sharif, BS, Stouraitis, T, Karagiannidis, GK & Al-Dhahir, N 2018, Performance Analysis of Single Carrier Coherent and Noncoherent Modulation under I/Q Imbalance. in *2018 IEEE 87th Vehicular Technology Conference, VTC Spring 2018*. IEEE, pp. 1-5, IEEE Vehicular Technology Conference, Porto, Portugal, 3/06/18. <https://doi.org/10.1109/VTCSpring.2018.8417514>

Sheikh, MU, Biswas, R & Lempiäinen, J 2018, Performance Evaluation of Coordinated Multipoint Transmission at 28 GHz Frequency Using 3D Ray Tracing. in *2018 IEEE 87th Vehicular Technology Conference, VTC Spring 2018 - Proceedings*. IEEE, pp. 1-6, IEEE Vehicular Technology Conference, Porto, Portugal, 3/06/18. <https://doi.org/10.1109/VTCSpring.2018.8417593>

Solomitskii, D, Petrov, V, Nikopour, H, Akdeniz, M, Orhan, O, Himayat, N, Talwar, S, Andreev, S & Koucheryavy, Y 2018, Ray-based evaluation of dual-polarized MIMO in (Ultra-)dense millimeter-wave urban deployments. in *2018 IEEE 87th Vehicular Technology Conference, VTC Spring 2018 - Proceedings*. IEEE, pp. 1-7, IEEE Vehicular Technology Conference, Porto, Portugal, 3/06/18. <https://doi.org/10.1109/VTCSpring.2018.8417788>

Gapeyenko, M, Bor-Yaliniz, I, Andreev, S, Yanikomeroglu, H & Koucheryavy, Y 2018, Effects of blockage in deploying mmWave drone base stations for 5g networks and beyond. in *2018 IEEE International Conference on Communications Workshops*. IEEE, pp. 1-6, IEEE International Conference on Communications Workshops, 1/01/00. <https://doi.org/10.1109/ICCW.2018.8403671>

Korpi, D, Turunen, M, Anttila, L & Valkama, M 2018, Modeling and cancellation of self-interference in full-duplex radio transceivers: Volterra series-based approach. in *2018 IEEE International Conference on Communications Workshops*. IEEE, pp. 1-6, IEEE International Conference on Communications Workshops, 1/01/00. <https://doi.org/10.1109/ICCW.2018.8403638>

Li, X, You, C, Andreev, S, Gong, Y & Huang, K 2018, Optimizing wirelessly powered crowd sensing: Trading energy for data. in *2018 IEEE International Conference on Communications Workshops*. IEEE, pp. 1-6, IEEE International Conference on Communications Workshops, 1/01/00. <https://doi.org/10.1109/ICCW.2018.8403562>

Silverajan, B, Ocak, M & Nagel, B 2018, Cybersecurity Attacks and Defences for Unmanned Smart Ships. in *Proceedings - IEEE 2018 International Congress on Cybermatics: 2018 IEEE Conferences on Internet of Things, Green Computing and Communications, Cyber, Physical and Social Computing, Smart Data, Blockchain, Computer and Information Technology, iThings/GreenCom/CPSCoM/SmartData/Blockchain/CIT 2018*. IEEE, pp. 15-20, IEEE International Conference on Internet of Things, Halifax, Canada, 30/07/18. https://doi.org/10.1109/Cybermatics_2018.2018.00037

Kolehmainen, A 2018, Secure Firmware Updates for IoT: A Survey. in *Proceedings - IEEE 2018 International Congress on Cybermatics: 2018 IEEE Conferences on Internet of Things, Green Computing and Communications, Cyber, Physical and Social Computing, Smart Data, Blockchain, Computer and Information Technology, iThings/GreenCom/CPSCoM/SmartData/Blockchain/CIT 2018*. IEEE, pp. 112-117, IEEE International Conference on Internet of Things, Halifax, Canada, 30/07/18. https://doi.org/10.1109/Cybermatics_2018.2018.00051

Balasubramaniam, S, Wirdatmadja, SA, Barros, MT, Koucheryavy, Y, Stachowiak, M & Jornet, JM 2018, 'Wireless Communications for Optogenetics-Based Brain Stimulation: Present Technology and Future Challenges', *IEEE Communications Magazine*, vol. 56, no. 7, 8419204, pp. 218-224. <https://doi.org/10.1109/MCOM.2018.1700917>

Merilampi, S, Koivisto, A & Virkki, J 2018, Activation game for older adults - Development and initial user experiences. in *2018 IEEE 6th International Conference on Serious Games and Applications for Health, SeGAH 2018*. IEEE, pp. 1-5, IEEE International Conference on Serious Games and Applications for Health, 1/01/00. <https://doi.org/10.1109/SeGAH.2018.8401351>

Siljander, S, Keinänen, P, Rätty, A, Ramakrishnan, KR, Tuukkanen, S, Kunnari, V, Harlin, A, Vuorinen, J & Kanerva, M 2018, 'Effect of surfactant type and sonication energy on the electrical conductivity properties of nanocellulose-CNT nanocomposite films', *International Journal of Molecular Sciences*, vol. 19, no. 6, 1819. <https://doi.org/10.3390/ijms19061819>

Orsino, A, Kovalchukov, R, Samuylov, A, Moltchanov, D, Andreev, S, Koucheryavy, Y & Valkama, M 2018, 'Caching-Aided Collaborative D2D Operation for Predictive Data Dissemination in Industrial IoT', *IEEE Wireless Communications*, vol. 25, no. 3, pp. 50-57. <https://doi.org/10.1109/MWC.2018.1700320>

Petrov, V, Kokkonen, J, Moltchanov, D, Lehtomäki, J, Koucheryavy, Y & Juntti, M 2018, 'Last Meter Indoor Terahertz Wireless Access: Performance Insights and Implementation Roadmap', *IEEE Communications Magazine*, vol. 56, no. 6, pp. 158-165. <https://doi.org/10.1109/MCOM.2018.1600300>

Narra, N, Fouefack, JR, Douglas, T & Mutsvangwa, T 2018, Conformal mapping of the human scapula to generate dense landmark features. in *2018 3rd Biennial South African Biomedical Engineering Conference, SAIBMEC 2018*. 2018 3rd Biennial South African Biomedical Engineering Conference, SAIBMEC 2018, Institute of Electrical and Electronics Engineers Inc., pp. 1-4, 3rd Biennial South African Biomedical Engineering Conference, SAIBMEC 2018, Stellenbosch, South Africa, 4/04/18. <https://doi.org/10.1109/SAIBMEC.2018.8363175>

Solin, A, Cortés, S, Rahtu, E & Kannala, J 2018, PIVO: Probabilistic inertial-visual odometry for occlusion-robust navigation. in *Proceedings - 2018 IEEE Winter Conference on Applications of Computer Vision, WACV 2018*. IEEE, pp. 616-625, IEEE Winter Conference on Applications of Computer Vision, Lake Tahoe, United States, 12/03/18. <https://doi.org/10.1109/WACV.2018.00073>

Suzumori, K, Hyon, SH, Semini, C, Mattila, J & Kanda, T 2018, 'Preface: Special Issue on 'New Hydraulic Components for Tough Robots'', *Advanced Robotics*, vol. 32, no. 9. <https://doi.org/10.1080/01691864.2018.1466427>

Peltokangas, M, Suominen, V, Vakhitov, D, Verho, J, Korhonen, J, Lekkala, J, Vehkaoja, A & Oksala, N 2018, 'The effect of percutaneous transluminal angioplasty of superficial femoral artery on pulse wave features', *Computers in Biology and Medicine*, vol. 96, pp. 274-282. <https://doi.org/10.1016/j.compbiomed.2018.04.003>

Heikkilä, J, Martinsuo, M & Nenonen, S 2018, 'Backshoring of production in the context of a small and open Nordic economy', *Journal of Manufacturing Technology Management*, vol. 29, no. 4, pp. 658-675. <https://doi.org/10.1108/JMTM-12-2016-0178>

Petrone, G, Romanelli, S, Spagnuolo, G & Valkealahti, S 2018, Photovoltaic plant cloud shadowing and energy drops in Northern Europe. in *2018 IEEE International Conference on Industrial Technology (ICIT)*. IEEE, pp. 1055-1060, IEEE INTERNATIONAL CONFERENCE ON INDUSTRIAL TECHNOLOGY, 1/01/00. <https://doi.org/10.1109/ICIT.2018.8352324>

Paladi, N, Michalas, A & Dang, HV 2018, Towards secure cloud orchestration for multi-cloud deployments. in *CrossCloud 2018 - 5th Workshop on CrossCloud Infrastructures and Platforms, colocated with EuroSys 2018.*, a4, ACM, Workshop on CrossCloud Infrastructures & Platforms, 1/01/00. <https://doi.org/10.1145/3195870.3195874>

Tarniceriu, A, Harju, J, Vehkaoja, A, Parak, J, Delgado-Gonzalo, R, Renevey, P, Yli-Hankala, A & Korhonen, I 2018, Detection of beat-to-beat intervals from wrist photoplethysmography in patients with sinus rhythm and atrial fibrillation after surgery. in *2018 IEEE EMBS International Conference on Biomedical and Health Informatics, BHI 2018*. IEEE, pp. 133-136, IEEE EMBS International Conference on Biomedical and Health Informatics, Las Vegas, United States, 4/03/18. <https://doi.org/10.1109/BHI.2018.8333387>

Galinina, O, Mikhaylov, K, Huang, K, Andreev, S & Koucheryavy, Y 2018, 'Wirelessly powered urban crowd sensing over wearables: Trading energy for data', *IEEE Wireless Communications*, vol. 25, no. 2, pp. 140-149. <https://doi.org/10.1109/MWC.2018.1600468>

Mohammed, WM, Ramis Ferrer, B, Iarovy, S, Negri, E, Fumagalli, L, Lobov, A & Martinez Lastra, JL 2018, 'Generic platform for manufacturing execution system functions in knowledge-driven manufacturing systems', *International Journal of Computer Integrated Manufacturing*, pp. 1-13. <https://doi.org/10.1080/0951192X.2017.1407874>

Achimova, E, Abaskin, V, Claus, D, Pedrini, G, Shevkunov, I & Katkovnik, V 2018, 'Noise minimized high resolution digital holographic microscopy applied to surface topography', *Computer Optics*, vol. 42, no. 2, pp. 267-272. <https://doi.org/10.18287/2412-6179-2018-42-2-267-272>

Mohammed, WM, Ferrer, BR, Martinez, JL, Sanchis, R, Andres, B & Agostinho, C 2018, A multi-agent approach for processing industrial enterprise data. in *2017 International Conference on Engineering, Technology and Innovation: Engineering, Technology and Innovation Management Beyond 2020: New Challenges, New Approaches, ICE/ITMC 2017 - Proceedings*. IEEE, pp. 1209-1215, International Conference on Engineering, Technology and Innovation, 1/01/00. <https://doi.org/10.1109/ICE.2017.8280018>

Katasonov, A, Lastusilta, T, Korvola, T, Saari, L, Bendas, D, Mohammed, WM & Lee, AN 2018, An approach to production scheduling optimization a case of an oil lubrication and hydraulic systems manufacturer. in *2017 International Conference on Engineering, Technology and Innovation: Engineering, Technology and Innovation Management Beyond 2020: New Challenges, New Approaches, ICE/ITMC 2017 - Proceedings*. IEEE, pp. 1123-1130, International Conference on Engineering, Technology and Innovation, 1/01/00. <https://doi.org/10.1109/ICE.2017.8280007>

Mohammed, WM, Ferrer, BR, Jose, L, Lastra, M, Aleixo, D & Agostinho, C 2018, Configuring and visualizing the data resources in a cloud-based data collection framework. in *2017 International Conference on Engineering, Technology and Innovation: Engineering, Technology and Innovation Management Beyond 2020: New Challenges, New Approaches, ICE/ITMC 2017 - Proceedings*. IEEE, pp. 1201-1208, International Conference on Engineering, Technology and Innovation, 1/01/00. <https://doi.org/10.1109/ICE.2017.8280017>

Sariola, R 2018, Exploiting suppliers' potential in construction innovations. in *2017 International Conference on Engineering, Technology and Innovation: Engineering, Technology and Innovation Management Beyond 2020: New Challenges, New Approaches, ICE/ITMC 2017 - Proceedings*. IEEE, pp. 678-684, International Conference on Engineering, Technology and Innovation, 1/01/00. <https://doi.org/10.1109/ICE.2017.8279950>

Galinina, O, Pyattaev, A, Johnsson, K, Andreev, S & Koucheryavy, Y 2018, Analyzing Effects of Directional Deafness on mmWave Channel Access in Unlicensed Bands. in *2017 IEEE Globecom Workshops, GC Wkshps 2017 - Proceedings*. IEEE, pp. 1-7, IEEE Global Telecommunications Conference, Singapore, Singapore, 4/12/17. <https://doi.org/10.1109/GLOCOMW.2017.8269183>

Solomitckii, D, Petrov, V, Nikopour, H, Akdeniz, M, Orhan, O, Himayat, N, Talwar, S, Andreev, S & Koucheryavy, Y 2018, Detailed Interference Analysis in Dense mmWave Systems Employing Dual-Polarized Antennas. in *2017 IEEE Globecom Workshops*. IEEE, pp. 1-6, IEEE Global Telecommunications Conference, Singapore, Singapore, 4/12/17. <https://doi.org/10.1109/GLOCOMW.2017.8269040>

Valkonen, M, Kartasalo, K, Liimatainen, K, Nykter, M, Latonen, L & Ruusuvaori, P 2018, Dual Structured Convolutional Neural Network with Feature Augmentation for Quantitative Characterization of Tissue Histology. in *2017 IEEE International Conference on Computer Vision Workshops, ICCVW 2017*. IEEE, pp. 27-35, IEEE International Conference on Computer Vision Workshops, 1/01/00. <https://doi.org/10.1109/ICCVW.2017.10>

Melekhov, I, Ylioinas, J, Kannala, J & Rahtu, E 2018, Image-Based Localization Using Hourglass Networks. in *2017 IEEE International Conference on Computer Vision Workshops, ICCVW 2017*. IEEE, pp. 870-877, IEEE International Conference on Computer Vision Workshops, 1/01/00. <https://doi.org/10.1109/ICCVW.2017.107>

Katkovnik, V, Shevkunov, I, Petrov, NV & Eguiazarian, K 2018, Multiwavelength surface contouring from phase-coded diffraction patterns. in *Unconventional Optical Imaging 2018. Strasbourg, France.*, 106771B, Proceedings of SPIE - The International Society for Optical Engineering, vol. 10677, SPIE, Unconventional Optical Imaging, 1/01/00. <https://doi.org/10.1117/12.2306127>

Solomitckii, D, Gapeyenko, M, Semkin, V, Andreev, S & Koucheryavy, Y 2018, 'Technologies for Efficient Amateur Drone Detection in 5G Millimeter-Wave Cellular Infrastructure', *IEEE Communications Magazine*, vol. 56, no. 1, pp. 43-50. <https://doi.org/10.1109/MCOM.2017.1700450>

Noronen, T, Fedotov, A, Rissanen, J, Gumenyuk, R, Butov, O, Chamorovskii, Y, Golant, K, Odnoblyudov, M & Filippov, V 2018, Ultra-large mode area single frequency anisotropic MOPA with double clad Yb-doped tapered fiber. in *Fiber Lasers XV: Technology and Systems.*, 105121T, Proceedings of SPIE, vol. 10512, SPIE, IEEE, Fiber Lasers XV: Technology and Systems 2018, San Francisco, United States, 29/01/18. <https://doi.org/10.1117/12.2288942>

Voronin, V, Pismenskova, M, Zelensky, A, Cen, Y, Nadykto, A & Egiazarian, K 2018, Action recognition using the 3D dense microblock difference. in *Counterterrorism, Crime Fighting, Forensics, and Surveillance Technologies II.*, 108020O, Proceedings of SPIE, vol. 10802, SPIE, Counterterrorism, Crime Fighting, Forensics, and Surveillance Technologies, Berlin, Germany, 10/09/18. <https://doi.org/10.1117/12.2326801>

Chen, K & Zhang, Z 2018, 'A Primal Neural Network for Online Equality-Constrained Quadratic Programming', *Cognitive Computation*, vol. 10, no. 2, pp. 381-388. <https://doi.org/10.1007/s12559-017-9510-4>

Taibi, D, Lenarduzzi, V & Pahl, C 2018, Architectural patterns for microservices: A systematic mapping study. in *CLOSER 2018 - Proceedings of the 8th International Conference on Cloud Computing and Services Science*. SCITEPRESS, pp. 221-232, International Conference on Cloud Computing and Services Science, Funchal, Madeira, Portugal, 19/03/18. <https://doi.org/10.5220/0006798302210232>

Ponomarenko, M, Gapon, N, Voronin, V & Egiazarian, K 2018, Blind estimation of white Gaussian noise variance in highly textured images. in *Electronic Imaging: Image Processing: Algorithms and Systems XVI*. Society for Imaging Science and Technology, IS&T International Symposium on Electronic Imaging, 28/01/18. <https://doi.org/10.2352/ISSN.2470-1173.2018.13.IPAS-382>

Voronin, V, Semenishchev, E, Ponomarenko, M & Agaian, S 2018, Combined local and global image enhancement algorithm. in *Electronic Imaging: Image Processing: Algorithms and Systems XVI*. Society for Imaging Science and Technology, IS&T International Symposium on Electronic Imaging, 28/01/18. <https://doi.org/10.2352/ISSN.2470-1173.2018.13.IPAS-220>

Miroshnichenko, O, Ponomarenko, M, Lukin, V & Egiazarian, K 2018, Compression of signs of DCT coefficients for additional lossless compression of JPEG images. in *Electronic Imaging: Image Processing: Algorithms and Systems XVI*. Society for Imaging Science and Technology, IS&T International Symposium on Electronic Imaging, 28/01/18. <https://doi.org/10.2352/ISSN.2470-1173.2018.13.IPAS-385>

Sahin, E, Vagharshakyan, S, Bregovic, R, Lee, G & Gotchev, A 2018, Conversion of sparsely-captured light field into alias-free fullparallax multiview content. in *Electronic Imaging: Stereoscopic Displays and Applications XXIX*. Society for Imaging Science and Technology, pp. 1441-1445, IS&T International Symposium on Electronic Imaging, 28/01/18. <https://doi.org/10.2352/ISSN.2470-1173.2018.04.SDA-144>

Battisti, F, Carli, M, De Paola, E & Egiazarian, K 2018, Deep p-Fibonacci scattering networks. in *Electronic Imaging: Image Processing: Algorithms and Systems XVI*. Society for Imaging Science and Technology, IS&T International Symposium on Electronic Imaging, 28/01/18. <https://doi.org/10.2352/ISSN.2470-1173.2018.13.IPAS-193>

Järvinen, H, Honkanen, M, Järvenpää, M & Peura, P 2018, 'Effect of paint baking treatment on the properties of press hardened boron steels', *Journal of Materials Processing Technology*, vol. 252, pp. 90-104. <https://doi.org/10.1016/j.jmatprotec.2017.08.027>

Niemelä, P & Valmari, A 2018, Elementary math to close the digital skills gap. in *CSEdu 2018 - Proceedings of the 10th International Conference on Computer Supported Education*. vol. 2, SCITEPRESS, pp. 154-165, INTERNATIONAL CONFERENCE ON COMPUTER SUPPORTED EDUCATION, 1/01/00. <https://doi.org/10.5220/0006800201540165>

Hamari, J, Hassan, L & Dias, A 2018, 'Gamification, quantified-self or social networking? Matching users' goals with motivational technology', *User Modeling and User-Adapted Interaction*, vol. 28, no. 1, pp. 35-74. <https://doi.org/10.1007/s11257-018-9200-2>

Mateos, X, Loiko, P, Lamrini, S, Scholle, K, Fuhrberg, P, Suomalainen, S, Härkönen, A, Guina, M, Vatik, S, Vedin, I, Aguiló, M, Díaz, F, Wang, Y, Griebner, U & Petrov, V 2018, Highly-efficient Ho:KY(WO₄)₂ thin-disk lasers at 2.06 μm. in *Pacific-Rim Laser Damage 2018: Optical Materials for High-Power Lasers.*, 107130J, Proceedings of SPIE, vol. 10713, SPIE, IEEE, Pacific-Rim Laser Damage, Yokohama, Japan, 24/04/18. <https://doi.org/10.1117/12.2316822>

Morschheuser, B, Hassan, L, Werder, K & Hamari, J 2018, 'How to design gamification? A method for engineering gamified software', *Information and Software Technology*, vol. 95, pp. 219-237. <https://doi.org/10.1016/j.infsof.2017.10.015>

Karioja, P, Alajoki, T, Cherchi, M, Ollila, J, Harjanne, M, Heinilehto, N, Suomalainen, S, Zia, N, Tuorila, H, Viheriälä, J, Guina, M, Buczynski, R, Kasztelanic, R, Salo, T, Virtanen, S, Kluczynski, P, Borgen, L, Ratajczyk, M & Kalinowski, P 2018, Integrated multi-wavelength mid-IR light source for gas sensing. in *Next-Generation Spectroscopic Technologies XI*, 106570A, SPIE Conference Proceedings, vol. 10657, SPIE, IEEE, Next-Generation Spectroscopic Technologies, Orlando, United States, 16/04/18. <https://doi.org/10.1117/12.2305712>

Coatanéa, E, Wu, D, Tsarkov, V, Gary Wang, G, Modi, S & Jafarian, H 2018, Knowledge-based artificial neural network (KB-ANN) in engineering: Associating functional architecture modeling, dimensional analysis and causal graphs to produce optimized topologies for KB-ANNs. in *38th Computers and Information in Engineering Conference*. vol. 1B-2018, The American Society of Mechanical Engineers ASME, International Design Engineering Technical Conferences and Computers and Information in Engineering Conference, Quebec City, Canada, 26/08/18. <https://doi.org/10.1115/DETC201885895>

Rosati, P, Fowley, F, Pahl, C, Taibi, D & Lynn, T 2018, Making the cloud work for software producers: Linking architecture, operating cost and revenue. in *CLOSER 2018 - Proceedings of the 8th International Conference on Cloud Computing and Services Science*. SCITEPRESS, pp. 364-375, INTERNATIONAL CONFERENCE ON CLOUD COMPUTING AND SERVICES SCIENCE, 1/01/00. <https://doi.org/10.5220/0006679303640375>

Ponomarenko, M, Katkovnik, V & Egiazarian, K 2018, Methods and tools for denoising of complex-valued images based on block-matching and high order singular value decomposition. in *Electronic Imaging: Image Processing: Algorithms and Systems XVI*. Society for Imaging Science and Technology, IS&T International Symposium on Electronic Imaging, 28/01/18. <https://doi.org/10.2352/ISSN.2470-1173.2018.13.IPAS-306>

van Mellaert, R, Mela, K, Tiainen, T, Heinisuo, M, Lombaert, G & Schevenels, M 2018, 'Mixed-integer linear programming approach for global discrete sizing optimization of frame structures', *Structural and Multidisciplinary Optimization*, vol. 57, no. 2, pp. 579-593. <https://doi.org/10.1007/s00158-017-1770-9>

Boashash, B, Aïssa-El-Bey, A & Al-Sa'd, MF 2018, 'Multisensor Time–Frequency Signal Processing MATLAB package: An analysis tool for multichannel non-stationary data', *SoftwareX*, vol. 8, pp. 53-58. <https://doi.org/10.1016/j.softx.2017.12.002>

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

Laakkonen, P & Paunonen, L 2018, 'Reduced Order Internal Models in the Frequency Domain', *IEEE Transactions on Automatic Control*, vol. 63, no. 6, pp. 1806-1812. <https://doi.org/10.1109/TAC.2017.2751520>

Ieremeiev, O, Lukin, V, Ponomarenko, N & Egiazarian, K 2018, Robust linearized combined metrics of image visual quality . in *Electronic Imaging: Image Processing: Algorithms and Systems XVI*. Society for Imaging Science and Technology, IS&T International Symposium on Electronic Imaging, 28/01/18. <https://doi.org/10.2352/ISSN.2470-1173.2018.13.IPAS-260>

Humaloja, J-P & Paunonen, L 2018, 'Robust Regulation of Infinite-Dimensional Port-Hamiltonian Systems', *IEEE Transactions on Automatic Control*, vol. 63, no. 5. <https://doi.org/10.1109/TAC.2017.2748055>

Ometov, A, Daneshfar, N, Hazmi, A, Andreev, S, Del Carpio, LF, Amin, P, Torsner, J, Koucheryavy, Y & Valkama, M 2018, 'System-level analysis of IEEE 802.11ah technology for unsaturated MTC traffic', *International Journal of Sensor Networks*, vol. 26, no. 4, pp. 269-282. <https://doi.org/10.1504/IJSNET.2018.090480>

Korpi, D, Riihonen, T, Sabharwal, A & Valkama, M 2018, 'Transmit Power Optimization and Feasibility Analysis of Self-backhauling Full-Duplex Radio Access Systems', *IEEE Transactions on Wireless Communications*, vol. 17, no. 6, pp. 4219-4236. <https://doi.org/10.1109/TWC.2018.2821682>

Kellomäki, T 2017, 'Fast Water Simulation Methods for Games', *Computers in Entertainment*, vol. 16, no. 1, 2. <https://doi.org/10.1145/2700533>

Taibi, D, Janes, A & Lenarduzzi, V 2017, 'How developers perceive smells in source code: A replicated study', *Information and Software Technology*, vol. 92, pp. 223-235. <https://doi.org/10.1016/j.infsof.2017.08.008>

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

Danne, R, Poojari, C, Martinez-Seara, H, Rissanen, S, Lolicato, F, Róg, T & Vattulainen, I 2017, 'DoGlycans-Tools for Preparing Carbohydrate Structures for Atomistic Simulations of Glycoproteins, Glycolipids, and Carbohydrate Polymers for GROMACS', *Journal of Chemical Information and Modeling*, vol. 57, no. 10, pp. 2401-2406. <https://doi.org/10.1021/acs.jcim.7b00237>

Koivumäki, J & Mattila, J 2017, 'Adaptive and nonlinear control of discharge pressure for variable displacement axial piston pumps', *Journal of Dynamic Systems, Measurement and Control: Transactions of the ASME*, vol. 139, no. 10, 101008. <https://doi.org/10.1115/1.4036537>

Nanni, L, Paci, M, Brahmam, S & Ghidoni, S 2017, 'An ensemble of visual features for Gaussians of local descriptors and non-binary coding for texture descriptors', *Expert Systems with Applications*, vol. 82, pp. 27-39. <https://doi.org/10.1016/j.eswa.2017.03.065>

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

Marshoud, H, Sofotasios, PC, Muhaidat, S, Karagiannidis, GK & Sharif, BS 2017, 'On the Performance of Visible Light Communication Systems with Non-Orthogonal Multiple Access', *IEEE Transactions on Wireless Communications*, vol. 16, no. 10, pp. 6350-6364. <https://doi.org/10.1109/TWC.2017.2722441>

Leppänen, L, Leinonen, J, Ihanntola, P & Hellas, A 2017, Predicting academic success based on learning material usage. in *SIGITE 2017 - Proceedings of the 18th Annual Conference on Information Technology Education*. ACM, pp. 13-18, ANNUAL CONFERENCE ON INFORMATION TECHNOLOGY EDUCATION, 1/01/00. <https://doi.org/10.1145/3125659.3125695>

Pohjola, J, Turunen, J & Lipping, T 2017, 'The effect of lake bottom sediment layers on radionuclide transport from bedrock to biosphere and doses to humans' Paper presented at 4th International Conference on Radioecology & Environmental Radioactivity, Berlin, Germany, 3/09/17 - 6/10/17, pp. 439-440.

Cui, Q, Zhang, Y, Ni, W, Valkama, M & Jantti, R 2017, 'Energy Efficiency Maximization of Full-Duplex Two-Way Relay with Non-Ideal Power Amplifiers and Non-Negligible Circuit Power', *IEEE Transactions on Wireless Communications*, vol. 16, no. 9, pp. 6264-6278. <https://doi.org/10.1109/TWC.2017.2721372>

Paunonen, L 2017, 'Robust Output Regulation for Continuous-Time Periodic Systems', *IEEE Transactions on Automatic Control*, vol. 62, no. 9, pp. 4363-4375. <https://doi.org/10.1109/TAC.2017.2654968>

Shahshahan, M, Keinänen, P & Vuorinen, J 2017, 'The Effect of Ultrasonic Dispersion on the Surface Chemistry of Carbon Nanotubes in the Jeffamine D-230 Polyetheramine Medium', *IEEE Transactions on Nanotechnology*, vol. 16, no. 5, pp. 741-744. <https://doi.org/10.1109/TNANO.2017.2691904>

Leinonen, J, Leppänen, L, Ihanntola, P & Hellas, A 2017, Comparison of time metrics in programming. in *ICER 2017 - Proceedings of the 2017 ACM Conference on International Computing Education Research*. ACM, pp. 200-208, INTERNATIONAL COMPUTING EDUCATION RESEARCH CONFERENCE, 1/01/00. <https://doi.org/10.1145/3105726.3106181>

Korpela, T, Kumpulainen, P, Majanne, Y, Häyrynen, A & Lautala, P 2017, 'Indirect NO_x emission monitoring in natural gas fired boilers', *Control Engineering Practice*, vol. 65, pp. 11-25. <https://doi.org/10.1016/j.conengprac.2017.04.013>

Desogus, C, Fadda, M, Murrioni, M, Araniti, G & Orsino, A 2017, Mobility aware eMBMS management in urban 5G-oriented systems. in *2017 IEEE International Symposium on Broadband Multimedia Systems and Broadcasting, BMSB 2017*. IEEE, IEEE INTERNATIONAL SYMPOSIUM ON BROADBAND MULTIMEDIA SYSTEMS AND BROADCASTING, 1/01/00. <https://doi.org/10.1109/BMSB.2017.7986140>

Rajan, DK, Verho, J, Kreutzer, J, Valimäki, H, Ihalainen, H, Lekkala, J, Patrikoski, M & Miettinen, S 2017, Monitoring pH, temperature and humidity in long-term stem cell culture in CO₂ incubator. in *2017 IEEE International Symposium on Medical Measurements and Applications (MeMeA)*. IEEE, pp. 470-474, IEEE International Symposium on Medical Measurements and Applications, Mayo Clinic, Rochester-Minnesota, USA, Minnesota, United States, 7/05/19. <https://doi.org/10.1109/MeMeA.2017.7985922>

Araniti, G, Orsino, A, Militano, L, Putrino, G, Andreev, S, Koucheryavy, Y & Iera, A 2017, Novel D2D-based relaying method for multicast services over 3GPP LTE-A systems. in *2017 IEEE International Symposium on Broadband Multimedia Systems and Broadcasting, BMSB 2017*. IEEE, IEEE INTERNATIONAL SYMPOSIUM ON BROADBAND MULTIMEDIA SYSTEMS AND BROADCASTING, 1/01/00. <https://doi.org/10.1109/BMSB.2017.7986137>

Orsino, A, Araniti, G, Scopelliti, P, Gudkova, IA, Samouylov, KE & Iera, A 2017, Optimal subgroup configuration for multicast services over 5G-satellite systems. in *2017 IEEE International Symposium on Broadband Multimedia Systems and Broadcasting, BMSB 2017*. IEEE, IEEE INTERNATIONAL SYMPOSIUM ON BROADBAND MULTIMEDIA SYSTEMS AND BROADCASTING, 1/01/00. <https://doi.org/10.1109/BMSB.2017.7986134>

- Tripathi, S, Lloyd-Price, J, Ribeiro, A, Yli-Harja, O, Dehmer, M & Emmert-Streib, F 2017, 'sgnesR: An R package for simulating gene expression data from an underlying real gene network structure considering delay parameters', *BMC Bioinformatics*, vol. 18, no. 1, 325. <https://doi.org/10.1186/s12859-017-1731-8>
- Rauti, S, Lahtiranta, J, Parisod, H, Hyrynsalmi, S, Salanterä, S, Aromaa, ME, Smed, J & Leppänen, V 2017, 'A Proxy-Based Solution for Asynchronous Telemedical Systems', *International Journal of E-health and Medical Communication*, vol. 8, no. 3, 5, pp. 70-83. <https://doi.org/10.4018/IJEHMC.2017070105>
- Yoo, SK, Cotton, SL, Sofotasios, PC, Matthaiou, M, Valkama, M & Karagiannidis, GK 2017, 'The Fisher-Snedecor F Distribution: A Simple and Accurate Composite Fading Model', *IEEE Communications Letters*, vol. 21, no. 7, pp. 1661-1664. <https://doi.org/10.1109/LCOMM.2017.2687438>
- Leppänen, L, Leinonen, J, Ihanntola, P & Hellas, A 2017, Using and collecting fine-grained usage data to improve online learning materials. in *Proceedings - 2017 IEEE/ACM 39th International Conference on Software Engineering: Software Engineering and Education Track, ICSE-SEET 2017*. IEEE, pp. 4-12, IEEE/ACM INTERNATIONAL CONFERENCE ON SOFTWARE ENGINEERING, 1/01/00. <https://doi.org/10.1109/ICSE-SEET.2017.12>
- Waris, MA, Iosifidis, A & Gabbouj, M 2017, 'CNN-based edge filtering for object proposals', *Neurocomputing*, vol. 266, pp. 631-640. <https://doi.org/10.1016/j.neucom.2017.05.071>
- Rantanen, P, Sillberg, P & Soini, J 2017, Towards the Utilization of Crowdsourcing in Traffic Condition Reporting. in *2017 40th International Convention on Information and Communication Technology, Electronics and Microelectronics, MIPRO 2017 - Proceedings*. IEEE, pp. 985-990, International Convention on Information and Communication Technology, Electronics and Microelectronics, 1/01/00. <https://doi.org/10.23919/MIPRO.2017.7973567>
- Leinonen, J, Ihanntola, P & Hellas, A 2017, Preventing keystroke based identification in open data sets. in *L@S 2017 - Proceedings of the 4th (2017) ACM Conference on Learning at Scale*. ACM, pp. 101-109, ACM Conference on Learning @ Scale, 1/01/00. <https://doi.org/10.1145/3051457.3051458>
- Vorwerk, J, Engwer, C, Pursiainen, S & Wolters, CH 2017, 'A Mixed Finite Element Method to Solve the EEG Forward Problem', *IEEE Transactions on Medical Imaging*, vol. 36, no. 4, 7731161, pp. 930-941. <https://doi.org/10.1109/TMI.2016.2624634>
- Mattila, J, Koivumäki, J, Caldwell, DG & Semini, C 2017, 'A survey on control of hydraulic robotic manipulators with projection to future trends', *IEEE - ASME Transactions on Mechatronics*, vol. 22, no. 2, pp. 669-680. <https://doi.org/10.1109/TMECH.2017.2668604>
- Mattila, J, Semini, C, Moon, H, Buchli, J, Hyon, S, Li, PY & Yao, B 2017, 'Guest editorial introduction to the focused section on design and control of hydraulic robots', *IEEE - ASME Transactions on Mechatronics*, vol. 22, no. 2, pp. 585-588. <https://doi.org/10.1109/TMECH.2017.2668611>
- Petrov, V, Komarov, M, Moltchanov, D, Jornet, JM & Koucheryavy, Y 2017, 'Interference and SINR in Millimeter Wave and Terahertz Communication Systems With Blocking and Directional Antennas', *IEEE Transactions on Wireless Communications*, vol. 16, no. 3, pp. 1791-1808. <https://doi.org/10.1109/TWC.2017.2654351>
- González-Díaz, I, Birinci, M, Díaz-De-María, F & Delp, EJ 2017, 'Neighborhood Matching for Image Retrieval', *IEEE Transactions on Multimedia*, vol. 19, no. 3, pp. 544-558. <https://doi.org/10.1109/TMM.2016.2616298>
- Chaudhary, S, Berki, E, Nykänen, P, Zolotavkin, Y, Helenius, M & Kela, J 2017, Towards a conceptual framework for privacy protection in the use of interactive 360° video surveillance. in *2016 22nd International Conference on Virtual System & Multimedia (VSMM)*. IEEE, INTERNATIONAL CONFERENCE ON VIRTUAL SYSTEMS AND MULTIMEDIA, 1/01/00. <https://doi.org/10.1109/VSMM.2016.7863179>
- Siiskonen, A & Priimägi, A 2017, 'Benchmarking DFT methods with small basis sets for the calculation of halogen-bond strengths', *Journal of Molecular Modeling*, vol. 23, no. 2, 50. <https://doi.org/10.1007/s00894-017-3212-4>

Orsino, A, Ometov, A, Fodor, G, Moltchanov, D, Militano, L, Andreev, S, Yilmaz, ONC, Tirronen, T, Torsner, J, Araniti, G, Iera, A, Dohler, M & Koucheryavy, Y 2017, 'Effects of Heterogeneous Mobility on D2D-and Drone-Assisted Mission-Critical MTC in 5G', *IEEE Communications Magazine*, vol. 55, no. 2, pp. 79-87. <https://doi.org/10.1109/MCOM.2017.1600443CM>

Rahmatallah, Y, Zybailov, B, Emmert-Streib, F & Glazko, G 2017, 'GSAR: Bioconductor package for Gene Set analysis in R', *BMC Bioinformatics*, vol. 18, no. 1, 61. <https://doi.org/10.1186/s12859-017-1482-6>

Youvalari, RG, Aminlou, A, Hannuksela, MM & Gabbouj, M 2017, Efficient coding of 360-degree pseudo-cylindrical panoramic video for virtual reality applications. in *2016 IEEE International Symposium on Multimedia (ISM)*. IEEE, pp. 525-528, IEEE International Symposium on Multimedia, 1/01/00. <https://doi.org/10.1109/ISM.2016.74>

Kammachi-Sreedhar, K, Aminlou, A, Hannuksela, MM & Gabbouj, M 2017, Standard-compliant multiview video coding and streaming for virtual reality applications. in *2016 IEEE International Symposium on Multimedia (ISM)*. IEEE, pp. 295-300, IEEE International Symposium on Multimedia, 1/01/00. <https://doi.org/10.1109/ISM.2016.0065>

Kammachi-Sreedhar, K, Aminlou, A, Hannuksela, MM & Gabbouj, M 2017, Viewport-adaptive encoding and streaming of 360-degree video for virtual reality applications. in *2016 IEEE International Symposium on Multimedia (ISM)*. IEEE, pp. 583-586, IEEE International Symposium on Multimedia, 1/01/00. <https://doi.org/10.1109/ISM.2016.0126>

Murayama, M, Oguro, D, Kikuchi, H, Huttunen, H, Ho, YS & Shin, J 2017, Color-distribution similarity by information theoretic divergence for color images. in *2016 Asia-Pacific Signal and Information Processing Association Annual Summit and Conference, APSIPA 2016*. IEEE, Asia-pacific signal and information processing association annual summit and conference, 1/01/00. <https://doi.org/10.1109/APSIPA.2016.7820681>

Kovács, PT, Zare, A, Balogh, T, Bregovic, R & Gotchev, A 2017, 'Architectures and codecs for real-time light field streaming', *Journal of Imaging Science and Technology*, vol. 61, no. 1, 010403. <https://doi.org/10.2352/J.ImagingSci.Technol.2017.61.1.010403>

Pursiainen, S, Agsten, B, Wagner, S & Wolters, CH 2017, 'Advanced boundary electrode modeling for tES and parallel tES/EEG', *IEEE Transactions on Neural Systems and Rehabilitation Engineering*, vol. 26, no. 1, pp. 37-44. <https://doi.org/10.1109/TNSRE.2017.2748930>

Lenarduzzi, V, Stan, AC, Taibi, D, Tosi, D & Venters, G 2017, A dynamical quality model to continuously monitor software maintenance. in *Proceedings of the 11th European Conference on Information Systems Management, ECISM 2017*. Academic Conferences and Publishing International Limited, pp. 168-178, 11th European Conference on Information Systems Management, ECISM 2017, Genoa, Italy, 14/09/17.

Potapov, I, Järvenpää, M, Åkerblom, M, Raunonen, P & Kaasalainen, M 2017, 'Bayes Forest: A data-intensive generator of morphological tree clones', *GigaScience*, vol. 6, no. 10, gix079. <https://doi.org/10.1093/gigascience/gix079>

Egiazarian, K, Danielyan, A, Ponomarenkoa, N, Foia, A, Ieremeiev, O & Lukin, V 2017, BM3D-HVS: Content-Adaptive denoising for improved visual quality. in *Image Processing: Algorithms and Systems XV*. Electronic Imaging, pp. 48-55, IS&T International Symposium on Electronic Imaging, 1/01/00. <https://doi.org/10.2352/ISSN.2470-1173.2017.13.DPMI-083>

Niutanen, V, Hölttä-Otto, K, Rahardjo, A, Stowe, HM, Helo, P & Pulkkinen, A 2017, Complex elevator system DSM-case for a DSM design sprint. in *Understand, Innovate, and Manage your Complex System! - Proceedings of the 19th International DSM Conference*. The Design Society, pp. 259-264, International Dependency and Structure Modeling Conference, 1/01/00.

Katkovnik, V, Shevkunov, I, Petrov, NV & Egiazarian, K 2017, Computational wavelength resolution for in-line lensless holography: Phase-coded diffraction patterns and wavefront group-sparsity. in *Digital Optical Technologies 2017.*, 1033509, Proceedings of SPIE, vol. 10335, SPIE, Digital optical technologies, 1/01/00. <https://doi.org/10.1117/12.2269327>

Wu, D, Coatanea, E & Wang, GG 2017, Dimension reduction and decomposition using causal graph and qualitative analysis for aircraft concept design optimization. in *43rd Design Automation Conference*. The American Society of Mechanical Engineers ASME, International Design Engineering Technical Conferences and Computers and Information in Engineering Conference, 1/01/00. <https://doi.org/10.1115/DETC201767601>

Stoykova, E, Nazarova, D, Berberova, N, Gotchev, A, Ivanov, B & Mateev, G 2017, Dynamic laser speckle metrology with binarization of speckle patterns. in *19th International Conference and School on Quantum Electronics: Laser Physics and Applications.*, 102260R, Proceedings of SPIE, vol. 10226, SPIE, International Conference and School on Quantum Electronics, 1/01/00. <https://doi.org/10.1117/12.2262330>

Nogueira, IBR, Ribeiro, AM, Rodrigues, AE & Loureiro, JM 2017, 'Dynamic response to process disturbances—A comparison between TMB/SMB models in transient regime', *Computers and Chemical Engineering*, vol. 99, pp. 230-244. <https://doi.org/10.1016/j.compchemeng.2017.01.026>

Tosi, D, Lenarduzzi, V, Morasca, S & Taibi, D 2017, Experimenting traditional and modern reliability models in a 3-years european software project. in *Proceedings of the 11th European Conference on Information Systems Management, ECISM 2017*. Academic Conferences and Publishing International Limited, pp. 304-314, 11th European Conference on Information Systems Management, ECISM 2017, Genoa, Italy, 14/09/17.

Ieremeiev, O, Lukin, V, Ponomarenko, N & Egiazarian, K 2017, Full-reference metrics multidistortional analysis. in *Image Processing: Algorithms and Systems XV*. Electronic Imaging, pp. 27-35, IS&T International Symposium on Electronic Imaging, 1/01/00. <https://doi.org/10.2352/ISSN.2470-1173.2017.13.IPAS-202>

Vihervaara, J & Alapaholuoma, T 2017, Internet of Things: Opportunities for vocational education and training: Presentation of the pilot project. in *CSEDU 2017 - Proceedings of the 9th International Conference on Computer Supported Education*. SCITEPRESS, pp. 476-480, INTERNATIONAL CONFERENCE ON COMPUTER SUPPORTED EDUCATION, 1/01/00. <https://doi.org/10.5220/0006353204760480>

Borges, LR, Guerrero, I, Bakic, PR, Foi, A, Maidment, ADA & Vieira, MAC 2017, 'Method for Simulating Dose Reduction in Digital Breast Tomosynthesis', *IEEE Transactions on Medical Imaging*, vol. 36, no. 11, pp. 2331-2342. <https://doi.org/10.1109/TMI.2017.2715826>

Donohoe, M, Jennings, B, Jornet, JM & Balasubramaniam, S 2017, 'Nanodevice Arrays for Peripheral Nerve Fascicle Activation Using Ultrasound Energy-harvesting', *IEEE Transactions on Nanotechnology*, vol. 16, no. 6, pp. 919-930. <https://doi.org/10.1109/TNANO.2017.2723658>

Filippov, V, Vorotynskii, A, Noronen, T, Gumenyuk, R, Chamorovskii, Y & Golant, K 2017, Picosecond MOPA with ytterbium doped tapered double clad fiber. in *Fiber Lasers XIV: Technology and Systems*. vol. 10083, 100831H, Proceedings of SPIE, no. 10083, SPIE, Fiber Lasers XIV: Technology and Systems 2017, San Francisco, United States, 30/01/17. <https://doi.org/10.1117/12.2252006>

Orsino, A, Samuylov, A, Moltchanov, D, Andreev, S, Militano, L, Araniti, G & Koucheryavy, Y 2017, 'Time-Dependent Energy and Resource Management in Mobility-Aware D2D-Empowered 5G Systems', *IEEE Wireless Communications*, vol. 24, no. 4, pp. 14-22. <https://doi.org/10.1109/MWC.2017.1600393>

Babahajiani, P, Fan, L, Kämäräinen, J-K & Gabbouj, M 2017, 'Urban 3D segmentation and modelling from street view images and LiDAR point clouds', *Machine Vision and Applications*, vol. 28, no. 7, pp. 679-694. <https://doi.org/10.1007/s00138-017-0845-3>

Niemi, E & Pekkola, S 2017, 'Using enterprise architecture artefacts in an organisation', *Enterprise Information Systems*, vol. 11, no. 3, pp. 313-338. <https://doi.org/10.1080/17517575.2015.1048831>

Ruokonen, A, Wu, Z & Lu, R 2016, Describing mobile devices as RESTful services for the end-users. in *2016 IEEE International Conference on Mobile Services (MS)*. IEEE, pp. 127-134, IEEE International Conference on Mobile Services, 1/01/00. <https://doi.org/10.1109/MobServ.2016.27>

- Urama, J, Olshannikova, E, Ometov, A, Masek, P, Andreev, S, Olsson, T, Hosek, J, Niutanen, J, Koucheryavy, Y & Mikkonen, T 2016, Dynamic social trust associations over d2d communications: An implementation perspective. in *2016 IEEE International Conference on Mobile Services (MS)*. IEEE, pp. 186-189, IEEE International Conference on Mobile Services, 1/01/00. <https://doi.org/10.1109/MobServ.2016.41>
- Basole, RC, Huhtamäki, J, Still, K & Russell, MG 2016, 'Visual decision support for business ecosystem analysis', *Expert Systems with Applications*, vol. 65, pp. 271-282. <https://doi.org/10.1016/j.eswa.2016.08.041>
- Mäkinen, S, Leppänen, M, Kilamo, T, Mattila, A-L, Laukkanen, E, Pagels, M & Männistö, T 2016, 'Improving the delivery cycle: A multiple-case study of the toolchains in Finnish software intensive enterprises', *Information and Software Technology*, vol. 80, pp. 1339-1351. <https://doi.org/10.1016/j.infsof.2016.09.001>
- Symonds, P, Taylor, J, Chalabi, Z, Mavrogianni, A, Davies, M, Hamilton, I, Vardoulakis, S, Heaviside, C & Macintyre, H 2016, 'Development of an England-wide indoor overheating and air pollution model using artificial neural networks', *JOURNAL OF BUILDING PERFORMANCE SIMULATION*, vol. 9, no. 6, pp. 606-619. <https://doi.org/10.1080/19401493.2016.1166265>
- Stupnikov, A, Tripathi, S, De Matos Simoes, R, McArt, D, Salto-Tellez, M, Glazko, G, Dehmer, M & Emmert-Streib, F 2016, 'SamExploreR: Exploring reproducibility and robustness of RNA-seq results based on SAM files', *Bioinformatics*, vol. 32, no. 21, pp. 3345-3347. <https://doi.org/10.1093/bioinformatics/btw475>
- Rakkolainen, I, Raisamo, R, Turk, M, Höllerer, T & Palovuori, K 2016, Casual immersive viewing with smartphones. in *AcademicMindtrek 2016 - Proceedings of the 20th International Academic Mindtrek Conference*. ACM, pp. 449-452, Mindtrek Conference, 1/01/00. <https://doi.org/10.1145/2994310.2994314>
- Hokkanen, L, Xu, Y & Väänänen, K 2016, Focusing on user experience and business models in startups: Investigation of two-dimensional value creation. in *AcademicMindtrek 2016 - Proceedings of the 20th International Academic Mindtrek Conference*. ACM, pp. 59-67, Mindtrek Conference, 1/01/00. <https://doi.org/10.1145/2994310.2994371>
- Hildén, E, Väättäjä, H, Roto, V & Uusitalo, K 2016, Participatory development of user experience design guidelines for a B2B company. in *AcademicMindtrek '16 Proceedings of the 20th International Academic Mindtrek Conference*. ACM, pp. 49-58, Mindtrek Conference, 1/01/00. <https://doi.org/10.1145/2994310.2994355>
- Mattila, A-L, Ihantola, P, Kilamo, T, Luoto, A, Nurminen, M & Väättäjä, H 2016, Software visualization today - Systematic literature review. in *AcademicMindtrek 2016 - Proceedings of the 20th International Academic Mindtrek Conference*. ACM, pp. 262-271, Mindtrek Conference, 1/01/00. <https://doi.org/10.1145/2994310.2994327>
- Jumisko-Pyykkö, S, Pesonen, E & Väättäjä, H 2016, Temporal dimensions of affect in user experience of digital news in the field. in *AcademicMindtrek 2016 - Proceedings of the 20th International Academic Mindtrek Conference*. ACM, pp. 192-197, Mindtrek Conference, 1/01/00. <https://doi.org/10.1145/2994310.2994370>
- Aldawood, S, Fowley, F, Pahl, C, Taibi, D & Liu, X 2016, A coordination-based brokerage architecture for multi-cloud resource markets. in *Proceedings - 2016 4th International Conference on Future Internet of Things and Cloud Workshops, W-FiCloud 2016*. Institute of Electrical and Electronics Engineers Inc., pp. 7-14, 4th International Conference on Future Internet of Things and Cloud Workshops, W-FiCloud 2016, Vienna, Austria, 22/08/16. <https://doi.org/10.1109/W-FiCloud.2016.19>
- Lenarduzzi, V & Taibi, D 2016, MVP Explained: A Systematic Mapping Study on the Definitions of Minimal Viable Product . in *Proceedings - 42nd Euromicro Conference on Software Engineering and Advanced Applications, SEAA 2016*. IEEE, pp. 112-119, 42nd Euromicro Conference on Software Engineering and Advanced Applications, SEAA 2016, Limassol, Cyprus, 31/08/16. <https://doi.org/10.1109/SEAA.2016.56>
- Viehrig, M, Tuukkanen, S & Kallio, P 2016, Challenges and capabilities of conductive polymeric materials for electromechanical stimulation of stem cells: A case study. in *2016 International Conference on Manipulation, Automation and Robotics at Small Scales, MARSS 2016*. Institute of Electrical and Electronics Engineers Inc., International

Conference on Manipulation, Automation and Robotics at Small Scales (MARSS), 1/01/00.
<https://doi.org/10.1109/MARSS.2016.7561744>

Korpi, D, Tamminen, J, Turunen, M, Huusari, T, Choi, YS, Anttila, L, Talwar, S & Valkama, M 2016, 'Full-duplex mobile device: Pushing the limits', *IEEE Communications Magazine*, vol. 54, no. 9, pp. 80-87.
<https://doi.org/10.1109/MCOM.2016.7565192>

Zhu, S, Zeng, B, Zeng, L & Gabbouj, M 2016, 'Image interpolation based on non-local geometric similarities and directional gradients', *IEEE Transactions on Multimedia*, vol. 18, no. 9, pp. 1707-1719.
<https://doi.org/10.1109/TMM.2016.2593039>

Ruohonen, J, Hyrynsalmi, S & Leppänen, V 2016, Trading exploits online: A preliminary case study. in *IEEE RCIS 2016 - IEEE 10th International Conference on Research Challenges in Information Science*. IEEE COMPUTER SOCIETY PRESS, 10th IEEE International Conference on Research Challenges in Information Science, IEEE RCIS 2016, Grenoble, France, 1/05/16. <https://doi.org/10.1109/RCIS.2016.7549301>

Korpi, D, Anttila, L & Valkama, M 2016, Asymmetric full-duplex with contiguous downlink carrier aggregation. in *2016 IEEE 17th International Workshop on Signal Processing Advances in Wireless Communications (SPAWC)*. IEEE, IEEE International Workshop on Signal Processing Advances in Wireless Communications, 1/01/00.
<https://doi.org/10.1109/SPAWC.2016.7536807>

Andreev, S, Galinina, O, Pyattaev, A, Hosek, J, Masek, P, Yanikomeroğlu, H & Koucheryavy, Y 2016, 'Exploring synergy between communications, caching, and computing in 5G-grade deployments', *IEEE Communications Magazine*, vol. 54, no. 8, pp. 60-69. <https://doi.org/10.1109/MCOM.2016.7537178>

Ometov, A, Orsino, A, Militano, L, Moltchanov, D, Araniti, G, Olshannikova, E, Fodor, G, Andreev, S, Olsson, T, Iera, A, Torsner, J, Koucheryavy, Y & Mikkonen, T 2016, 'Toward trusted, social-aware D2D connectivity: Bridging across the technology and sociality realms', *IEEE Wireless Communications*, vol. 23, no. 4, pp. 103-111.
<https://doi.org/10.1109/MWC.2016.7553033>

Soini, J, Sillberg, P, Rantanen, P & Nummela, J 2016, Portable sensor system for reliable condition measurement. in *2016 39th International Convention on Information and Communication Technology, Electronics and Microelectronics, MIPRO 2016 - Proceedings*. pp. 1190-1195, International Convention on Information and Communication Technology, Electronics and Microelectronics, 1/01/00. <https://doi.org/10.1109/MIPRO.2016.7522320>

Linna, P, Mäkinen, T & Keto, H 2016, Utilizing MOOCs in the development of education and training programs. in *2016 39th International Convention on Information and Communication Technology, Electronics and Microelectronics, MIPRO 2016 - Proceedings*. pp. 861-864, International Convention on Information and Communication Technology, Electronics and Microelectronics, 1/01/00. <https://doi.org/10.1109/MIPRO.2016.7522260>

Korpela, T, Suominen, O, Majanne, Y, Laukkanen, V & Lautala, P 2016, 'Robust data reconciliation of combustion variables in multi-fuel fired industrial boilers', *Control Engineering Practice*, vol. 55, pp. 101-115.
<https://doi.org/10.1016/j.conengprac.2016.07.002>

Pyattaev, A, Johnsson, K, Andreev, S & Koucheryavy, Y 2016, A novel stochastic channel modeling approach for mmWave systems with beamforming. in *2016 IEEE 83rd Vehicular Technology Conference (VTC Spring)*. IEEE, IEEE Vehicular Technology Conference, 1/01/00. <https://doi.org/10.1109/VTCSpring.2016.7504091>

Xing, H & Renfors, M 2016, Multi-carrier CDMA for network assisted device-to-device communications for an integrated OFDMA cellular system. in *2016 IEEE 83rd Vehicular Technology Conference (VTC Spring)*. IEEE Vehicular Technology Conference, 1/01/00. <https://doi.org/10.1109/VTCSpring.2016.7504354>

Dikmese, S, Ilyas, Z, Sofotasios, P, Renfors, M & Valkama, M 2016, Novel frequency domain cyclic prefix autocorrelation based compressive spectrum sensing for cognitive radio. in *2016 IEEE 83rd Vehicular Technology Conference (VTC Spring)*. IEEE, IEEE Vehicular Technology Conference, 1/01/00. <https://doi.org/10.1109/VTCSpring.2016.7504368>

Suominen, O, Mörsky, V, Ritala, R & Vilkkö, M 2016, Framework for optimization and scheduling of a copper production plant. in *26th European Symposium on Computer Aided Process Engineering, 2016*. vol. 38, Computer Aided Chemical Engineering, Elsevier Science B.V., pp. 1243-1248, EUROPEAN SYMPOSIUM ON COMPUTER AIDED PROCESS ENGINEERING, 1/01/00. <https://doi.org/10.1016/B978-0-444-63428-3.50212-5>

Mäkelä, V, Korhonen, H, Ojala, J, Järvi, A, Väänänen, K, Raisamo, R & Turunen, M 2016, Investigating mid-air gestures and handhelds in motion tracked environments. in *PerDis 2016 - Proceedings of the 5th ACM International Symposium on Pervasive Displays*. ACM, pp. 45-51, ACM INTERNATIONAL SYMPOSIUM ON PERVASIVE DISPLAYS, 1/01/00. <https://doi.org/10.1145/2914920.2915015>

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

Vihonen, J, Honkakorpi, J, Tuominen, J, Mattila, J & Visa, A 2016, 'Linear accelerometers and rate gyros for rotary joint angle estimation of heavy-duty mobile manipulators using forward kinematic modeling', *IEEE - ASME Transactions on Mechatronics*, vol. 21, no. 3, pp. 1765-1774. <https://doi.org/10.1109/TMECH.2016.2544352>

Patrona, F, Iosifidis, A, Tefas, A, Nikolaidis, N & Pitas, I 2016, 'Visual Voice Activity Detection in the Wild', *IEEE Transactions on Multimedia*, vol. 18, no. 6, pp. 967-977. <https://doi.org/10.1109/TMM.2016.2535357>

Hästbacka, D & Zoitl, A 2016, Towards semantic self-description of industrial devices and control system interfaces. in *2016 IEEE International Conference on Industrial Technology (ICIT)*. Institute of Electrical and Electronics Engineers IEEE, pp. 879-884, IEEE INTERNATIONAL CONFERENCE ON INDUSTRIAL TECHNOLOGY, 1/01/00. <https://doi.org/10.1109/ICIT.2016.7474867>

Mäkitalo, N, Aaltonen, T & Mikkonen, T 2016, Coordinating proactive social devices in a mobile cloud: Lessons learned and a way forward. in *MOBILESoft '16 Proceedings of the International Conference on Mobile Software Engineering and Systems*. ACM, pp. 179-188, International Conference on Mobile Software Engineering and Systems, 1/01/00. <https://doi.org/10.1145/2897073.2897079>

Häkkinen, A & Ribeiro, AS 2016, 'Characterizing rate limiting steps in transcription from RNA production times in live cells', *Bioinformatics*, vol. 32, no. 9, pp. 1346-1352. <https://doi.org/10.1093/bioinformatics/btv744>

Ometov, A, Masek, P, Malina, L, Florea, R, Hosek, J, Andreev, S, Hajny, J, Niutanen, J & Koucheryavy, Y 2016, Feasibility characterization of cryptographic primitives for constrained (wearable) IoT devices. in *IEEE International Conference on Pervasive Computing and Communication Workshops, PerCom Workshops 2016*. IEEE, IEEE INTERNATIONAL CONFERENCE ON PERVASIVE COMPUTING AND COMMUNICATIONS WORKSHOPS, 1/01/00. <https://doi.org/10.1109/PERCOMW.2016.7457161>

Andreev, S, Hosek, J, Olsson, T, Johnsson, K, Pyattaev, A, Ometov, A, Olshannikova, E, Gerasimenko, M, Masek, P, Koucheryavy, Y & Mikkonen, T 2016, 'A unifying perspective on proximity-based cellular-assisted mobile social networking', *IEEE Communications Magazine*, vol. 54, no. 4, pp. 108-116. <https://doi.org/10.1109/MCOM.2016.7452274>

Galinina, O, Tabassum, H, Mikhaylov, K, Andreev, S, Hossain, E & Koucheryavy, Y 2016, 'On feasibility of 5G-grade dedicated RF charging technology for wireless-powered wearables', *IEEE Wireless Communications*, vol. 23, no. 2, pp. 28-37. <https://doi.org/10.1109/MWC.2016.7462482>

Strokina, N, Matas, J, Eerola, T, Lensu, L & Kälviäinen, H 2016, 'Detection of bubbles as concentric circular arrangements', *Machine Vision and Applications*, vol. 27, no. 3, pp. 387-396. <https://doi.org/10.1007/s00138-016-0749-7>

Abdelaziz, M, Fu, Z, Anttila, L, Wyglinski, AM & Valkama, M 2016, 'Digital predistortion for mitigating spurious emissions in spectrally agile radios', *IEEE Communications Magazine*, vol. 54, no. 3, pp. 60-69. <https://doi.org/10.1109/MCOM.2016.7432149>

Ponomarenko-Timofeev, A, Pyattaev, A, Andreev, S, Koucheryavy, Y, Mueck, M & Karls, I 2016, 'Highly dynamic spectrum management within licensed shared access regulatory framework', *IEEE Communications Magazine*, vol. 54, no. 3, pp. 100-109. <https://doi.org/10.1109/MCOM.2016.7432155>

Habib, M, Rasheed, S, Hussain, A & Ali, M 2016, Random Value Impulse Noise Removal Based on Most Similar Neighbors. in *2015 13th International Conference on Frontiers of Information Technology (FIT)*. IEEE, pp. 329-333, International Conference on Frontiers of Information Technology, 1/01/00. <https://doi.org/10.1109/FIT.2015.64>

Garcia-Fernandez, J, Joutsiniemi, A, Ahn, Y & Fernandez, JJ 2016, Quantitative + qualitative information for heritage conservation: An open science research for paving 'collaboratively' the way to historical-BIM. in *2015 Digital Heritage International Congress, Digital Heritage 2015*. IEEE, pp. 207-208, Digital Heritage International Congress, 1/01/00. <https://doi.org/10.1109/DigitalHeritage.2015.7419495>

Ropo, M, Schneider, M, Baldauf, C & Blum, V 2016, 'First-principles data set of 45,892 isolated and cation-coordinated conformers of 20 proteinogenic amino acids', *Scientific Data*, vol. 3, 160009. <https://doi.org/10.1038/sdata.2016.9>

Tokola, H, Niemi, E & Väistö, V 2016, Lean manufacturing methods in simulation literature: Review and association analysis. in *2015 Winter Simulation Conference (WSC)*. pp. 2239-2248, WINTER SIMULATION CONFERENCE, 1/01/00. <https://doi.org/10.1109/WSC.2015.7408336>

Balasubramaniam, S, Jornet, JM, Pierobon, M & Koucheryavy, Y 2016, 'Guest editorial special issue on the internet of nano things', *IEEE Internet of Things Journal*, vol. 3, no. 1, pp. 1-3. <https://doi.org/10.1109/JIOT.2016.2516838>

Canelas, P, Martins, L, Mora, A, S. Ribeiro, A & Fonseca, J 2016, An image generator platform to improve cell tracking algorithms simulation of objects of various morphologies, kinetics and clustering. in *SIMULTECH 2016 - Proceedings of the 6th International Conference on Simulation and Modeling Methodologies, Technologies and Applications*. SCITEPRESS, pp. 44-55, INTERNATIONAL CONFERENCE ON SIMULATION AND MODELING METHODOLOGIES, TECHNOLOGIES AND APPLICATIONS, 1/01/00.

Pakkanen, J, Juuti, T & Lehtonen, T 2016, 'Brownfield Process: A method for modular product family development aiming for product configuration', *DESIGN STUDIES*, vol. 45B, pp. 210-241. <https://doi.org/10.1016/j.destud.2016.04.004>

Niemi, H & Multisilta, J 2016, 'Digital storytelling promoting twenty-first century skills and student engagement', *Technology, Pedagogy and Education*, vol. 25, no. 4, pp. 451-468. <https://doi.org/10.1080/1475939X.2015.1074610>

Isotalo, TJ & Niemi, T 2016, Dots-on-the-fly electron beam lithography. in C Bencher (ed.), *SPIE Proceedings: Alternative Lithographic Technologies VIII*. vol. 9777, 97771E, Proceedings of SPIE, SPIE, Alternative Lithographic Technologies, 1/01/00. <https://doi.org/10.1117/12.2219136>

Zia, N, Viheriälä, J, Koskinen, R, Koskinen, M, Suomalainen, S & Guina, M 2016, Fabrication and characterization of broadband superluminescent diodes for 2 µm wavelength. in *Light-Emitting Diodes: Materials, Devices, and Applications for Solid State Lighting XX.*, 97680Q, Proceedings of SPIE, vol. 9768, SPIE, Light-Emitting Diodes: Materials, Devices, and Applications for Solid State Lighting, 1/01/00. <https://doi.org/10.1117/12.2209720>

Iosifidis, A, Tefas, A & Pitas, I 2016, 'Graph Embedded Extreme Learning Machine', *IEEE Transactions on Cybernetics*, vol. 46, no. 1, pp. 311 - 324. <https://doi.org/10.1109/TCYB.2015.2401973>

Viheriälä, J, Aho, AT, Mäkelä, J, Salmi, J, Virtanen, H, Leinonen, T, Dumitrescu, M & Guina, M 2016, High-power 1550 nm tapered DBR lasers fabricated using soft UV-nanoimprint lithography. in *High-Power Diode Laser Technology and Applications XIV.*, 97330Q, SPIE Conference Proceedings, vol. 9733, SPIE, High-Power Diode Laser Technology and Applications XIV, San Francisco, United States, 15/02/16. <https://doi.org/10.1117/12.2207423>

Moirangthem, M, Stumpel, JE, Alp, B, Teunissen, P, Bastiaansen, CWM & Schenning, APHJ 2016, Hot pen and laser writable photonic polymer films. in *Emerging Liquid Crystal Technologies XI*. vol. 9769, 97690Y, SPIE, Emerging Liquid Crystal Technologies XI, San Francisco, United States, 16/02/16. <https://doi.org/10.1117/12.2209065>

Voutilainen, JP, Mattila, AL, Systä, K & Mikkonen, T 2016, 'HTML5-based mobile agents for Web-of-Things', *Informatica*, vol. 40, no. 1, pp. 43-51.

Aalto, T, Harjanne, M, Offrein, BJ, Caër, C, Neumeys, C, Malacarne, A, Guina, M, Sheehan, RN, Peters, FH & Melanen, P 2016, Integrating III-V, Si, and polymer waveguides for optical interconnects: RAPIDO. in *Optical Interconnects XVI.*, 97530D, Proceedings of SPIE, vol. 9753, SPIE, Optical Interconnects, 1/01/00. <https://doi.org/10.1117/12.2214786>

Afolaranmi, SO, Gonzalez Moctezuma, LE, Rak, M, Casola, V, Rios, E & Martinez Lastra, JL 2016, Methodology to obtain the security controls in multi-cloud applications. in *CLOSER 2016 - Proceedings of the 6th International Conference on Cloud Computing and Services Science*. vol. 1, SCITEPRESS, pp. 327-332, INTERNATIONAL CONFERENCE ON CLOUD COMPUTING AND SERVICES SCIENCE, 1/01/00. <https://doi.org/10.5220/0005912603270332>

Mesaros, A, Heittola, T & Virtanen, T 2016, 'Metrics for polyphonic sound event detection', *Applied Sciences*, vol. 6, no. 6, 162. <https://doi.org/10.3390/app6060162>

Fotiadi, AA, Korobko, DA, Okhotnikov, OG & Zolotovskii, IO 2016, Optical fiber amplifier with spectral compression elements for high-power laser pulse generation. in *Nonlinear Optics and its Applications IV*. vol. 9894, 989411, Proceedings of SPIE, vol. 9894, SPIE, Nonlinear Optics and its Applications, 1/01/00. <https://doi.org/10.1117/12.2223637>

Frantc, VA, Makov, SV, Voronin, VV, Marchuk, VI, Semenishchev, EA, Egiazarian, KO & Agaian, S 2016, Simultaneous binary hash and features learning for image retrieval. in *Mobile Multimedia/Image Processing, Security, and Applications 2016.*, 986902, SPIE Conference Proceedings, vol. 9869, SPIE, Mobile Multimedia/Image Processing, Security, and Applications, 1/01/00. <https://doi.org/10.1117/12.2223605>

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*, vol. 27, no. 3, pp. 697-718. <https://doi.org/10.1007/s11045-015-0333-8>

Yunas, SF, Ansari, WH & Valkama, M 2016, 'Technoeconomical Analysis of Macrocell and Femtocell Based HetNet under Different Deployment Constraints', *Mobile Information Systems*, vol. 2016, 6927678. <https://doi.org/10.1155/2016/6927678>

Ylinen, A, Mäkinen, J & Kouhia, R 2016, Two models for hydraulic cylinders in flexible multibody simulations. in *Computational Methods for Solids and Fluids: Multiscale Analysis, Probability Aspects and Model Reduction*. Computational Methods in Applied Sciences, vol. 41, Springer, pp. 463-493. https://doi.org/10.1007/978-3-319-27996-1_17

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*, vol. 2015, no. 1, 119. <https://doi.org/10.1186/s13638-015-0364-8>

Naumenko, V, Solodovnik, V, Totsky, A, Zelensky, A & Astola, J 2015, Bispectrum-based demodulation technique using triple-channel heterodyning of triplet-signal. in *2015 Second International Scientific-Practical Conference Problems of Infocommunications Science and Technology (PIC S&T)*. IEEE, pp. 224-226, International Scientific-Practical Conference Problems of Infocommunications Science and Technology, 1/01/00. <https://doi.org/10.1109/INFOCOMMST.2015.7357319>

Rubel, O, Ponomarenko, N, Lukin, V, Astola, J & Egiazarian, K 2015, HVS-based local analysis of denoising efficiency for DCT-based filters. in *2015 2nd International Scientific-Practical Conference Problems of Infocommunications Science and Technology, PIC S and T 2015 - Conference Proceedings*. IEEE, pp. 189-192, International Scientific-Practical Conference Problems of Infocommunications Science and Technology, 1/01/00. <https://doi.org/10.1109/INFOCOMMST.2015.7357309>

Kozhemiakina, N, Lukin, V, Ponomarenko, N, Akulynichev, A, Astola, J & Egiazarian, K 2015, Method of data compression for traffic monitoring. in *2015 2nd International Scientific-Practical Conference Problems of Infocommunications Science and Technology, PIC S and T 2015 - Conference Proceedings*. IEEE, pp. 153-156, International Scientific-Practical Conference Problems of Infocommunications Science and Technology, 1/01/00. <https://doi.org/10.1109/INFOCOMMST.2015.7357299>

Naumenko, A, Krivenko, S, Ponomarenko, N, Zelensky, A & Lukin, V 2015, Texture detection in noisy images by combining several local parameters. in *2015 2nd International Scientific-Practical Conference Problems of Infocommunications Science and Technology, PIC S and T 2015 - Conference Proceedings*., 7357321, Institute of Electrical and Electronics Engineers Inc., pp. 230-233, 2nd International Scientific-Practical Conference Problems of Infocommunications Science and Technology, PIC S and T 2015, Kharkiv, Ukraine, 13/10/15. <https://doi.org/10.1109/INFOCOMMST.2015.7357321>

Shahriar, MS & Rahman, MS 2015, Urban sensing and smart home energy optimisations: A machine learning approach. in *IoT-App 2015 - Proceedings of the 2015 International Workshop on Internet of Things Towards Applications, co-located with SenSys 2015*. ACM, pp. 19-22, International Workshop on Internet of Things towards Applications, 1/01/00. <https://doi.org/10.1145/2820975.2820979>

Paunonen, L & Laakkonen, P 2015, 'Polynomial Input-Output Stability for Linear Systems', *IEEE Transactions on Automatic Control*, vol. 60, no. 10, pp. 2797-2802. <https://doi.org/10.1109/TAC.2015.2398890>

Luhtala, M, Karvonen, T, Pylväs, J, Ala-Kokko, A, Magica, R, Takeda, Y & Turunen, M 2015, Antroposeeni - A mixed reality game. in *ACADEMICMINDTREK 2015 - Proceedings of the 19th International Academic Mindtrek Conference*. Association for Computing Machinery, Inc, pp. 211-213, 19th International Academic Mindtrek Conference, AcademicMindTrek 2015, Tampere, Finland, 22/09/15. <https://doi.org/10.1145/2818187.2818287>

Nummenmaa, T, Kultima, A, Kankainen, V, Savolainen, S, Syvänen, A, Alha, K & Mäyrä, F 2015, OASIS deck of cards - House of colleagues: A playful. in *ACADEMICMINDTREK 2015 - Proceedings of the 19th International Academic Mindtrek Conference*. Association for Computing Machinery, Inc, pp. 2-9, 19th International Academic Mindtrek Conference, AcademicMindTrek 2015, Tampere, Finland, 22/09/15. <https://doi.org/10.1145/2818187.2818296>

Martin, F, Singh, D, Belahcen, A, Rasilo, P, Haavisto, A & Arkkio, A 2015, 'Analytical model for magnetic anisotropy of non-oriented steel sheets', *COMPEL: The International Journal for Computation and Mathematics in Electrical and Electronic Engineering*, vol. 34, no. 5, pp. 1475-1488. <https://doi.org/10.1108/COMPEL-02-2015-0076>

Shah, SB, Rasilo, P, Belahcen, A & Arkkio, A 2015, 'Estimation of additional losses due to random contacts at the edges of stator of an electrical machine', *COMPEL: The International Journal for Computation and Mathematics in Electrical and Electronic Engineering*, vol. 34, no. 5, pp. 1501-1510. <https://doi.org/10.1108/COMPEL-02-2015-0083>

Iosifidis, A, Tefas, A & Pitas, I 2015, 'DropELM: Fast neural network regularization with Dropout and DropConnect', *Neurocomputing*, vol. 162, pp. 57-66. <https://doi.org/10.1016/j.neucom.2015.04.006>

Kymalainen, T, Perala, P, Hakulinen, J, Heimonen, T, James, J & Pera, J 2015, Evaluating a Future Remote Control Environment with an Experience-Driven Science Fiction Prototype. in *Proceedings - 2015 International Conference on Intelligent Environments, IE 2015*., 7194274, Institute of Electrical and Electronics Engineers Inc., pp. 81-88, 11th International Conference on Intelligent Environments, IE 2015, Prague, Czech Republic, 15/07/15. <https://doi.org/10.1109/IE.2015.19>

Iosifidis, A, Tefas, A & Pitas, I 2015, 'Distance-based human action recognition using optimized class representations', *Neurocomputing*, vol. 161, pp. 47-55. <https://doi.org/10.1016/j.neucom.2014.10.088>

Zhu, S, Zeng, B, Liu, G, Zeng, L, Fang, L & Gabbouj, M 2015, Image interpolation based on non-local geometric similarities. in *2015 IEEE International Conference on Multimedia and Expo (ICME)*. IEEE COMPUTER SOCIETY PRESS, IEEE International Conference on Multimedia and Expo, 1/01/00. <https://doi.org/10.1109/ICME.2015.7177417>

Koivumäki, J & Mattila, J 2015, 'Stability-Guaranteed Force-Sensorless Contact Force/Motion Control of Heavy-Duty Hydraulic Manipulators', *IEEE Transactions on Robotics*, vol. 31, no. 4, pp. 918-935. <https://doi.org/10.1109/TRO.2015.2441492>

Rantala, M, Soini, J & Kilamo, T 2015, Gathering useful programming data; Analysis and insights from real-time collaborative editing. in *2015 38th International Convention on Information and Communication Technology, Electronics and Microelectronics, MIPRO 2015 - Proceedings.*, 7160270, The Institute of Electrical and Electronics Engineers, Inc., pp. 229-234, International Convention on Information and Communication Technology, Electronics and Microelectronics, 1/01/00. <https://doi.org/10.1109/MIPRO.2015.7160270>

Stolze, P, Karamanakos, P, Kennel, R, Manias, S & Endisch, C 2015, 'Effective variable switching point predictive current control for ac low-voltage drives', *International Journal of Control*, vol. 88, no. 7, pp. 1366-1378. <https://doi.org/10.1080/00207179.2014.942699>

Rodrigues, PC, Monteiro, A & Lourenço, VM 2015, 'A robust AMMI model for the analysis of genotype-by-environment data', *Bioinformatics*, vol. 32, no. 1, pp. 58-66. <https://doi.org/10.1093/bioinformatics/btv533>

Gerasimenko, M, Moltchanov, D, Florea, R, Himayat, N, Andreev, S & Koucheryavy, Y 2015, Prioritized centrally-controlled resource allocation in integrated multi-RAT HetNets. in *IEEE Vehicular Technology Conference*. vol. 2015-July, The Institute of Electrical and Electronics Engineers, Inc., IEEE Vehicular Technology Conference, 1/01/00. <https://doi.org/10.1109/VTCSpring.2015.7146031>

Aytekin, C, Rezaeitabar, Y, Dogru, S & Ulusoy, I 2015, 'Railway fastener inspection by real-time machine vision', *IEEE Transactions on Systems, Man, and Cybernetics: Systems*, vol. 45, no. 7, pp. 1101-1107. <https://doi.org/10.1109/TSMC.2014.2388435>

Huusari, T, Choi, YS, Liikkanen, P, Korpi, D, Talwar, S & Valkama, M 2015, Wideband self-adaptive RF cancellation circuit for full-duplex radio: Operating principle and measurements. in *2015 IEEE 81st Vehicular Technology Conference (VTC Spring)*. The Institute of Electrical and Electronics Engineers, Inc., IEEE Vehicular Technology Conference, 1/01/00. <https://doi.org/10.1109/VTCSpring.2015.7146163>

Us, D, Moreno-Galera, A, Nazari-Farsani, S, Palovuori, K, Kosola, H, Zedda, T & Ruotsalainen, U 2015, AvanTomography: A compact module for positron emission mammography. in *2015 IEEE International Symposium on Medical Measurements and Applications, MeMeA 2015 - Proceedings*. IEEE, pp. 52-57, IEEE International Symposium on Medical Measurements and Applications, United Kingdom, 1/01/00. <https://doi.org/10.1109/MeMeA.2015.7145171>

Silverajan, B, Luoma, J-P, Vajaranta, M & Itäpuro, R 2015, Collaborative cloud-based management of home networks. in *Proceedings of the 2015 IFIP/IEEE International Symposium on Integrated Network Management, IM 2015*. IEEE, pp. 786-789, IFIP/IEEE International Symposium on Integrated Network Management, 1/01/00. <https://doi.org/10.1109/INM.2015.7140376>

Abramova, VV, Kozhemiakin, R, Abramov, SK, Lukin, VV, Zelensky, AA & Egiazarian, K 2015, Blind estimation of speckle variance in synthetic aperture radar images. in *2015 International Conference on Antenna Theory and Techniques: Dedicated to 95 Year Jubilee of Prof. Yakov S. Shifrin, ICATT 2015 - Proceedings*. The Institute of Electrical and Electronics Engineers, Inc., International Conference on Antenna Theory and Techniques, 1/01/00. <https://doi.org/10.1109/ICATT.2015.7136846>

Naumenko, VV, Solodovnik, VF, Totsky, AV, Zelensky, AA & Astola, JT 2015, Experimental study of bispectrum-based encoding in radio communication system. in *2015 International Conference on Antenna Theory and Techniques: Dedicated to 95 Year Jubilee of Prof. Yakov S. Shifrin, ICATT 2015 - Proceedings*. The Institute of Electrical and Electronics Engineers, Inc., International Conference on Antenna Theory and Techniques, 1/01/00. <https://doi.org/10.1109/ICATT.2015.7136853>

Saintsing, CD, Yu, K, Qi, HJ & Tentzeris, M 2015, 'Planar monopole antennas on substrates fabricated through an additive manufacturing process', *IEEE Radio and Wireless Symposium, RWS*, vol. 2015-June, no. June, 7129744, pp. 159-161. <https://doi.org/10.1109/RWS.2015.7129744>

Samiee, K, Kiranyaz, S, Gabbouj, M & Saramäki, T 2015, 'Long-term epileptic EEG classification via 2D mapping and textural features', *Expert Systems with Applications*, vol. 42, no. 20, pp. 7175-7185. <https://doi.org/10.1016/j.eswa.2015.05.002>

Matos Simoes, RD, Dalleau, S, Williamson, KE & Emmert-Streib, F 2015, 'Urothelial cancer gene regulatory networks inferred from large-scale RNAseq, Bead and Oligo gene expression data', *BMC Systems Biology*, vol. 9, 21. <https://doi.org/10.1186/s12918-015-0165-z>

Liang, Y, Ma, L, Wang, J & Wang, G 2015, 'Multistep reactions of water with small Pd_n clusters: A first principles study', *Journal of Theoretical and Computational Chemistry*, vol. 14, no. 3, 1550017. <https://doi.org/10.1142/S0219633615500170>

Heino, M, Korpi, D, Huusari, T, Antonio-Rodríguez, E, Venkatasubramanian, S, Riihonen, T, Anttila, L, Icheln, C, Haneda, K, Wichman, R & Valkama, M 2015, 'Recent advances in antenna design and interference cancellation algorithms for in-band full duplex relays', *IEEE Communications Magazine*, vol. 53, no. 5, pp. 91-101. <https://doi.org/10.1109/MCOM.2015.7105647>

Alevras, I, Karamanakos, P, Manias, S & Kennel, R 2015, Variable switching point predictive torque control with extended prediction horizon. in *2015 IEEE International Conference on Industrial Technology, ICIT 2015*. June edn, Institute of Electrical and Electronics Engineers Inc., pp. 2352-2357, 2015 IEEE International Conference on Industrial Technology, ICIT 2015, Seville, Spain, 17/03/15. <https://doi.org/10.1109/ICIT.2015.7125445>

Paunonen, L 2015, 'Designing controllers with reduced order internal models', *IEEE Transactions on Automatic Control*, vol. 60, no. 3, 6826480, pp. 775-780. <https://doi.org/10.1109/TAC.2014.2329212>

Järvelin, K, Vakkari, P, Arvola, P, Baskaya, F, Järvelin, A, Kekäläinen, J, Keskustalo, H, Kumpulainen, S, Saastamoinen, M, Savolainen, R & Sormunen, E 2015, 'Task-based information interaction evaluation: The viewpoint of program theory', *ACM Transactions on Information Systems*, vol. 33, no. 1, 3. <https://doi.org/10.1145/2699660>

Akyildiz, IF, Pierobon, M, Balasubramaniam, S & Koucheryavy, Y 2015, 'The internet of Bio-Nano things', *IEEE Communications Magazine*, vol. 53, no. 3, pp. 32-40. <https://doi.org/10.1109/MCOM.2015.7060516>

Rivero Rodriguez, A, Leppäkoski, H & Piché, R 2015, Semantic Labeling of Places based on Phone Usage Features using Supervised Learning. in *2014 Ubiquitous Positioning Indoor Navigation and Location Based Service, UPINLBS 2014 - Conference Proceedings.*, 7033715, IEEE, Piscataway, NJ, USA, pp. 97-102, Ubiquitous Positioning, Indoor Navigation and Location-Based Service, 1/01/15. <https://doi.org/10.1109/UPINLBS.2014.7033715>

Pyattaev, A, Johnsson, K, Andreev, S & Koucheryavy, Y 2015, 'Communication challenges in high-density deployments of wearable wireless devices', *IEEE Wireless Communications*, vol. 22, no. 1, pp. 12-18. <https://doi.org/10.1109/MWC.2015.7054714>

M. Aref, M, Oftadeh, R, Ghabcheloo, R & Mattila, J 2015, 'Fault tolerant control architecture design for mobile manipulation in scientific facilities', *international Journal of Advanced Robotic Systems*, vol. 12, no. 4. <https://doi.org/10.5772/60038>

Mygdalis, V, Iosifidis, A, Tefas, A & Pitas, I 2015, Video summarization based on Subclass Support Vector Data Description. in *IEEE SSCI 2014 - 2014 IEEE Symposium Series on Computational Intelligence - CIES 2014: 2014 IEEE Symposium on Computational Intelligence for Engineering Solutions, Proceedings*. The Institute of Electrical and Electronics Engineers, Inc., pp. 183-187, 2014 IEEE Symposium on Computational Intelligence for Engineering Solutions, CIES 2014, Orlando, United States, 9/12/14. <https://doi.org/10.1109/CIES.2014.7011849>

- Nix, E, Das, P, Taylor, J & Davies, M 2015, Employing a multi-Objective robust optimisation method for healthy and low-energy dwelling design in Delhi, India. in *Proceedings of the 2014 Building Simulation and Optimization Conference*. pp. 2093-2100, 14th Conference of International Building Performance Simulation Association, BS 2015, Hyderabad, India, 7/12/15.
- Häkkinen, A & Ribeiro, AS 2015, 'Estimation of GFP-tagged RNA numbers from temporal fluorescence intensity data', *Bioinformatics*, vol. 31, no. 1, pp. 69-75. <https://doi.org/10.1093/bioinformatics/btu592>
- Yunas, S, Valkama, M & Niemelä, J 2015, 'Spectral and energy efficiency of ultra-dense networks under different deployment strategies', *IEEE Communications Magazine*, vol. 53, no. 1, pp. 90-100. <https://doi.org/10.1109/MCOM.2015.7010521>
- Tauriainen, MK, Puttonen, JA & Saari, AJ 2015, 'The assessment of constructability: BIM cases', *Journal of Information Technology in Construction*, vol. 20, pp. 51-67.
- Khonsari, Z, Björninen, T, Tentzeris, MM, Sydänheimo, L & Ukkonen, L 2015, 2.4 GHz inkjet-printed RF energy harvester on bulk cardboard substrate. in *2015 IEEE Radio and Wireless Symposium (RWS), 25-28 Jan. 2015, San Diego, CA*. IEEE, pp. 153-155, IEEE Radio and Wireless Symposium, San Diego, 1/01/00. <https://doi.org/10.1109/RWS.2015.7129721>
- Kantola, E, Leinonen, T, Ranta, S, Tavast, M, Penttinen, J-P & Guina, M 2015, 1180nm VECSEL with 50 W output power. in *Proceedings of SPIE - The International Society for Optical Engineering*. vol. 9349, 93490U, SPIE, Vertical External Cavity Surface Emitting Lasers, United Kingdom, 1/01/15. <https://doi.org/10.1117/12.2079480>
- Rubel, AS, Lukin, VV & Egiazarian, K 2015, A method for predicting DCT-based denoising efficiency for grayscale images corrupted by AWGN and additive spatially correlated noise. in *Proceedings of SPIE - The International Society for Optical Engineering*. vol. 9399, 93990P, SPIE, IS&T/SPIE Electronic Imaging / Image Processing: Algorithms and Systems, 1/01/00. <https://doi.org/10.1117/12.2082533>
- Battisti, F, Carli, M, Stramacci, A, Boev, A & Gotchev, A 2015, A perceptual quality metric for high-definition stereoscopic 3D video. in *Image Processing: Algorithms and Systems XIII*, 939916, SPIE Conference Proceedings, vol. 9399, SPIE, IS&T/SPIE Electronic Imaging / Image Processing: Algorithms and Systems, 1/01/00. <https://doi.org/10.1117/12.2086901>
- Hyrnsalmi, S, Seppänen, M, Aarikka-Stenroos, L, Suominen, A, Järveläinen, J & Harkke, V 2015, 'Busting myths of electronic word of mouth: The relationship between customer ratings and the sales of mobile applications', *Journal of Theoretical and Applied Electronic Commerce Research*, vol. 10, no. 2, pp. 1-18. <https://doi.org/10.4067/S0718-18762015000200002>
- Lukin, VV, Ponomarenko, NN, Ieremeiev, O, Egiazarian, K & Astola, J 2015, Combining full-reference image visual quality metrics by neural network. in *Proceedings of SPIE - The International Society for Optical Engineering*. vol. 9394, 93940K, SPIE, Human Vision and Electronic Imaging, United States, 1/01/00. <https://doi.org/10.1117/12.2085465>
- Voronin, VV, Marchuk, VI, Fisunov, AV, Tokareva, SV & Egiazarian, KO 2015, Depth map occlusion filling and scene reconstruction using modified exemplar-based inpainting. in *Image Processing: Algorithms and Systems XIII*, 93990S, SPIE Conference Proceedings, vol. 9399, SPIE, IS&T/SPIE Electronic Imaging / Image Processing: Algorithms and Systems, 1/01/00. <https://doi.org/10.1117/12.2076506>
- Pertilä, P & Nikunen, J 2015, 'Distant speech separation using predicted time-frequency masks from spatial features', *Speech Communication*, vol. 68, pp. 97-106. <https://doi.org/10.1016/j.specom.2015.01.006>
- Iosifidis, A 2015, 'Extreme learning machine based supervised subspace learning', *Neurocomputing*, vol. 167, pp. 158-164. <https://doi.org/10.1016/j.neucom.2015.04.083>
- Ledentsov, NN, Shchukin, VA, Lyytikäinen, J, Okhotnikov, O, Cherkashin, NA, Shernyakov, YM, Payusov, AS, Gordeev, NY, Maximov, MV, Schlichting, S, Nippert, F & Hoffmann, A 2015, Green (In,Ga,Al)P-GaP light-emitting diodes grown on high-index GaAs surfaces. in *Proceedings of SPIE: Light-Emitting Diodes: Materials, Devices, and Applications for Solid*

State Lighting XIX. vol. 9383, 93830E, SPIE, Light-Emitting Diodes: Materials, Devices, and Applications for Solid State Lighting XIX, San Francisco, United States, 10/02/15. <https://doi.org/10.1117/12.2083953>

Leinonen, T, Penttinen, JP, Korpijärvi, VM, Kantola, E & Guina, M 2015, >8W GaInNAs VECSEL emitting at 615 nm. in *Proceedings of SPIE: Vertical External Cavity Surface Emitting Lasers (VECSELs) V*. vol. 9349, 934909, SPIE, Vertical External Cavity Surface Emitting Lasers, United Kingdom, 1/01/15. <https://doi.org/10.1117/12.2079162>

AbuJarour, S, Pawlowski, J, Bick, M, Bagucanskyte, M, Frankenberg, A, Hudak, R, Makropoulos, C, Pappa, D, Pitsilis, V, Pirkkalainen, H, Tannhauser, AC, Trepule, E, Vidalis, A & Volungeviciene, A 2015, Idea-space: A use case of collaborative course development in higher education. in *Wissens-Gemeinschaften 2015*. TUDpress Verlag der Wissenschaften GmbH, pp. 149-156, Wissens-Gemeinschaften 2015 - Knowledge Communities Conference 2015, Dresden, Germany, 25/06/15.

Frosio, I, Egiazarian, K & Pulli, K 2015, Machine learning for adaptive bilateral filtering. in *Image Processing: Algorithms and Systems XIII*. vol. 9399, 939908, Proceedings of SPIE - The International Society for Optical Engineering, SPIE, IS&T/SPIE Electronic Imaging / Image Processing: Algorithms and Systems, 1/01/00. <https://doi.org/10.1117/12.2077733>

Ye, C, Koponen, J, Aallos, V, Kokki, T, Petit, L & Kimmelma, O 2015, Measuring bend losses in large-mode-area fibers. in *Fiber Lasers XII: Technology, Systems, and Applications*. vol. 9344, 934425, SPIE, Fiber Lasers XII: Technology, Systems, and Applications, San Francisco, United States, 9/02/15. <https://doi.org/10.1117/12.2076813>

Korpijärvi, V-M, Kantola, EL, Leinonen, T & Guina, M 2015, Monolithic GaInNAsSb/GaAs VECSEL emitting at 1550 nm. in *SPIE conference proceedings*. vol. 9349, 93490D, SPIE, Vertical External Cavity Surface Emitting Lasers, United Kingdom, 1/01/15. <https://doi.org/10.1117/12.2077517>

Cho, C, Yi, X, Wang, Y & Tentzeris, MM 2015, Multi-physics modeling and simulation of a frequency doubling antenna sensor for passive wireless strain sensing. in *Structural Health Monitoring 2015: System Reliability for Verification and Implementation - Proceedings of the 10th International Workshop on Structural Health Monitoring, IWSHM 2015*. vol. 2, DEStech Publications, pp. 864-872, 10th International Workshop on Structural Health Monitoring: System Reliability for Verification and Implementation, IWSHM 2015, Stanford, United States, 1/09/15.

Voronin, VV, Frantc, VA, Marchuk, VI, Sherstobitov, AI & Egiazarian, K 2015, No-reference visual quality assessment for image inpainting. in *Image Processing: Algorithms and Systems XIII*, 93990U, SPIE Conference Proceedings, vol. 9399, SPIE, IS&T/SPIE Electronic Imaging / Image Processing: Algorithms and Systems, 1/01/00. <https://doi.org/10.1117/12.2076507>

Laihonen, H & Syysnummi, P 2015, 'Organisational knowledge flows and structural change the case of dispersed education organizations', *International Journal of Knowledge Management Studies*, vol. 6, no. 3, pp. 247-260. <https://doi.org/10.1504/IJKMS.2015.072711>

Heikkinen, J, Gumenyuk, R, Rantamäki, A, Lyytikäinen, J, Leinonen, T, Zolotovskii, I, Melkumov, M, Dianov, EM & Okhotnikov, OG 2015, Power and wavelength scaling using semiconductor disk laser - bismuth fiber MOPA systems. in M Guina (ed.), *Vertical External Cavity Surface Emitting Lasers (VECSELs) V*, 93490E, Proceedings of SPIE, vol. 9349, SPIE, BELLINGHAM, Vertical External Cavity Surface Emitting Lasers, United Kingdom, 1/01/15. <https://doi.org/10.1117/12.2076805>

Suominen, O & Gotchev, A 2015, Preserving natural scene lighting by strobe-lit video. in *Image Processing: Algorithms and Systems XIII*, 939919, SPIE Conference Proceedings, vol. 9399, SPIE, IS&T/SPIE Electronic Imaging / Image Processing: Algorithms and Systems, 1/01/00. <https://doi.org/10.1117/12.2185013>

Smirnov, S & Gotchev, A 2015, Real-time depth image-based rendering with layered dis-occlusion compensation and aliasing-free composition. in *Proceedings of SPIE - The International Society for Optical Engineering*, 93990T, SPIE Conference Proceedings, vol. 9399, SPIE, IS&T/SPIE Electronic Imaging / Image Processing: Algorithms and Systems, 1/01/00. <https://doi.org/10.1117/12.2086895>

Hecker, K, Clemens, W, Lupo, D & Breitung, S 2015, Roadmap for organic and printed electronics. in *Smart Systems Integration 2015 - 9th International Conference and Exhibition on Integration Issues of Miniaturized Systems: MEMS, NEMS, ICs and Electronic Components, SSI 2015*. Apprimus Verlag, pp. 125-126, Smart Systems Integration 2015 - 9th International Conference and Exhibition on Integration Issues of Miniaturized Systems: MEMS, NEMS, ICs and Electronic Components, SSI 2015, Copenhagen, Denmark, 11/03/15.

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*, vol. 2015, no. 1, 178. <https://doi.org/10.1186/s13638-015-0393-3>

Seppälä, J & Salmenperä, M 2015, Towards dependable automation. in *Cyber Security: Analytics, Technology and Automation: Part IV. Intelligent Systems, Control and Automation: Science and Engineering*, vol. 78, Springer International Publishing, pp. 229-249. https://doi.org/10.1007/978-3-319-18302-2_15

Belahcen, A, Rasilo, P, Nguyen, TT & Clénet, S 2015, 'Uncertainty propagation of iron loss from characterization measurements to computation of electrical machines', *COMPEL: The International Journal for Computation and Mathematics in Electrical and Electronic Engineering*, vol. 34, no. 3, pp. 624-636. <https://doi.org/10.1108/COMPEL-10-2014-0271>

Iosifidis, A, Tefas, A & Pitas, I 2014, 'Class-Specific Reference Discriminant Analysis With Application in Human Behavior Analysis', *IEEE Transactions on Human-Machine Systems*, vol. 45, no. 3, pp. 315-326. <https://doi.org/10.1109/THMS.2014.2379274>

Rahmatallah, Y, Emmert-Streib, F & Glazko, G 2014, 'Comparative evaluation of gene set analysis approaches for RNA-Seq data', *BMC Bioinformatics*, vol. 15, no. 1, 397. <https://doi.org/10.1186/s12859-014-0397-8>

Iosifidis, A, Tefas, A & Pitas, I 2014, 'Regularized extreme learning machine for multi-view semi-supervised action recognition', *Neurocomputing*, vol. 145, pp. 250-262. <https://doi.org/10.1016/j.neucom.2014.05.036>

Sharma, S, Srivastava, S, Sorathia, K, Hakulinen, J, Heimonen, T, Turunen, M & Rajput, N 2014, Body-touching: An embodied interaction technique for health information systems in developing regions. in *MINDTREK 2014 - Proceedings of the 18th International Academic MindTrek Conference: "Media Business, Management, Content and Services"*. Association for Computing Machinery, Inc, pp. 49-56, 18th International Academic MindTrek Conference, MINDTREK 2014, Tampere, Finland, 4/11/14. <https://doi.org/10.1145/2676467.2676514>

Luhtala, M, Heimonen, T, Mäkelä, V, Keskinen, T, Turunen, M & Saarinen, S 2014, DYNAMO sound engine - Exploring the aesthetics of dynamic sound interactions. in *MINDTREK 2014 - Proceedings of the 18th International Academic MindTrek Conference: "Media Business, Management, Content and Services"*. Association for Computing Machinery, Inc, pp. 159-166, 18th International Academic MindTrek Conference, MINDTREK 2014, Tampere, Finland, 4/11/14. <https://doi.org/10.1145/2676467.2676522>

Franssila, H, Okkonen, J & Savolainen, R 2014, Email intensity, productivity and control in the knowledge worker's performance on the desktop. in *MINDTREK 2014 - Proceedings of the 18th International Academic MindTrek Conference: "Media Business, Management, Content and Services"*. Association for Computing Machinery, Inc, pp. 19-22, 18th International Academic MindTrek Conference, MINDTREK 2014, Tampere, Finland, 4/11/14. <https://doi.org/10.1145/2676467.2676513>

Salmela, JM, Thanisch, P, Sotamaa, O & Niemi, T 2014, Games and energy: Profiling power usage during play. in *MINDTREK 2014 - Proceedings of the 18th International Academic MindTrek Conference: "Media Business, Management, Content and Services"*. Association for Computing Machinery, Inc, pp. 192-199, 18th International Academic MindTrek Conference, MINDTREK 2014, Tampere, Finland, 4/11/14. <https://doi.org/10.1145/2676467.2676488>

Nummenmaa, T, Kultima, A, Tyni, H & Alha, K 2014, MurMur Moderators, the talking playful seats. in *MINDTREK 2014 - Proceedings of the 18th International Academic MindTrek Conference: "Media Business, Management, Content and Services"*. Association for Computing Machinery, Inc, pp. 231-237, 18th International Academic MindTrek Conference, MINDTREK 2014, Tampere, Finland, 4/11/14. <https://doi.org/10.1145/2676467.2676505>

Juhola, M, Joutsijoki, H, Varpa, K, Saarikoski, J, Rasku, J, Iltanen, K, Laurikkala, J, Hyyro, H, Avalos-Salguero, J, Siirtola, H, Penttinen, K & Aalto-Setälä, K 2014, On computation of calcium cycling anomalies in cardiomyocytes data. in *2014 36th Annual International Conference of the IEEE Engineering in Medicine and Biology Society, EMBC 2014.*, 6943872, Institute of Electrical and Electronics Engineers Inc., pp. 1444-1447, 2014 36th Annual International Conference of the IEEE Engineering in Medicine and Biology Society, EMBC 2014, Chicago, United States, 26/08/14. <https://doi.org/10.1109/EMBC.2014.6943872>

Kimionis, J & Tentzeris, MM 2014, RF tag front-end design for uncompromised communication and harvesting. in *2014 IEEE RFID Technology and Applications Conference, RFID-TA 2014.*, 6934210, Institute of Electrical and Electronics Engineers Inc., pp. 109-114, 2014 IEEE RFID Technology and Applications Conference, RFID-TA 2014, Tampere, Finland, 8/09/14. <https://doi.org/10.1109/RFID-TA.2014.6934210>

Pirkkalainen, H, Jokinen, JPP & Pawlowski, JM 2014, 'Understanding social OER environments-A quantitative study on factors influencing the motivation to share and collaborate', *IEEE Transactions on Learning Technologies*, vol. 7, no. 4, 6823168, pp. 388-400. <https://doi.org/10.1109/TLT.2014.2323970>

Wang, J, Ma, L, Liang, Y, Gao, M & Wang, G 2014, 'Density functional theory study of transition metals doped B₈₀ fullerene', *Journal of Theoretical and Computational Chemistry*, vol. 13, no. 6, 1450050. <https://doi.org/10.1142/S0219633614500503>

He, Y, Pan, Z, Yang, J, Sun, G & Tentzeris, MM 2014, Effect of feeder cable's phase tolerance on the first sidelobe level of base station antenna. in *IWCMC 2014 - 10th International Wireless Communications and Mobile Computing Conference.*, 6906495, Institute of Electrical and Electronics Engineers Inc., pp. 1022-1026, 10th International Wireless Communications and Mobile Computing Conference, IWCMC 2014, Nicosia, Cyprus, 4/08/14. <https://doi.org/10.1109/IWCMC.2014.6906495>

Zhu, S, Zeng, B & Gabbouj, M 2014, Adaptive sampling for compressed sensing based image compression. in *2014 IEEE International Conference on Multimedia and Expo (ICME), 14-18 July 2014, Chengdu.* IEEE International Conference on Multimedia and Expo, 1/01/00. <https://doi.org/10.1109/ICME.2014.6890268>

Yigitcanlar, T, Lönnqvist, A & Saloniemi, H 2014, 'Analysis of a city-region from the knowledge perspective: Tampere, Finland', *VINE*, vol. 44, no. 3, pp. 445-466. <https://doi.org/10.1108/VINE-09-2013-0056>

Karamanakos, P, Pavlou, K & Manias, S 2014, 'An enumeration-based model predictive control strategy for the cascaded H-bridge multilevel rectifier', *IEEE Transactions on Industrial Electronics*, vol. 61, no. 7, pp. 3480-3489. <https://doi.org/10.1109/TIE.2013.2278965>

Tripathi, S, Dehmer, M & Emmert-Streib, F 2014, 'NetBioV: An R package for visualizing large network data in biology and medicine', *Bioinformatics*, vol. 30, no. 19, pp. 2834-2836. <https://doi.org/10.1093/bioinformatics/btu384>

Hyrnsalmi, S, Suominen, A, Mäkilä, T & Knuutila, T 2014, 'The emerging application ecosystems: An introductory analysis of android ecosystem', *INTERNATIONAL JOURNAL OF E-BUSINESS RESEARCH*, vol. 10, no. 2, pp. 61-81. <https://doi.org/10.4018/ijebr.2014040104>

Oftadeh, R, Aref, MM, Ghabcheloo, R & Mattila, J 2014, 'System integration for real-time mobile manipulation', *international Journal of Advanced Robotic Systems*, vol. 11, no. 1, 51. <https://doi.org/10.5772/58467>

De Wit, JJM, Harmanny, RIA & Molchanov, P 2014, Radar micro-Doppler feature extraction using the Singular Value Decomposition. in *2014 International Radar Conference, Radar 2014.* The Institute of Electrical and Electronics Engineers, Inc., IEEE Radar Conference, 1/01/00. <https://doi.org/10.1109/RADAR.2014.7060268>

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

Farooq, A, Evreinov, G, Raisamo, R, Mäkinen, E, Nukarinen, T & Majeed, AA 2014, Developing novel multimodal interaction techniques for touchscreen in-vehicle infotainment systems. in *ICOSST 2014 - 2014 International Conference on Open Source Systems and Technologies, Proceedings.*, 7029317, Institute of Electrical and Electronics Engineers Inc., pp. 32-42, 2014 International Conference on Open Source Systems and Technologies, ICOSST 2014, Lahore, Pakistan, 18/12/14. <https://doi.org/10.1109/ICOSST.2014.7029317>

Farooq, A, Evreinov, G, Raisamo, R & Majeed, AA 2014, Haptic user interface enhancement system for touchscreen based interaction: A novel system for multimodal interaction with touchscreen interfaces. in *ICOSST 2014 - 2014 International Conference on Open Source Systems and Technologies, Proceedings.*, 7029316, Institute of Electrical and Electronics Engineers Inc., pp. 25-31, 2014 International Conference on Open Source Systems and Technologies, ICOSST 2014, Lahore, Pakistan, 18/12/14. <https://doi.org/10.1109/ICOSST.2014.7029316>

Rahmatallah, Y, Emmert-Streib, F & Glazko, G 2014, 'Gene Sets Net Correlations Analysis (GSNCA): A multivariate differential coexpression test for gene sets', *Bioinformatics*, vol. 30, no. 3, pp. 360-368. <https://doi.org/10.1093/bioinformatics/btt687>

Michalas, A & Komninos, N 2014, The lord of the sense: A privacy preserving reputation system for participatory sensing applications. in *2014 IEEE Symposium on Computers and Communications, ISCC 2014 - Proceedings.*, 6912480, Institute of Electrical and Electronics Engineers Inc., 19th IEEE Symposium on Computers and Communications, ISCC 2014, Funchal, Portugal, 23/06/14. <https://doi.org/10.1109/ISCC.2014.6912480>

Taylor, J, Altamirano-Medina, H, Shrubsole, C, Das, P, Biddulph, P, Davies, M, Mavrogianni, A & Oikonomou, E 2014, 'Tuberculosis transmission: Modelled impact of air-tightness in dwellings in the UK' Paper presented at 13th International Conference on Indoor Air Quality and Climate, Indoor Air 2014, Hong Kong, Hong Kong, 7/07/14 - 12/07/14, pp. 60-67.

Das, P, Chalabi, Z, Davies, M, Hamilton, I, Jones, B, Mavrogianni, A, Shrubsole, C & Taylor, J 2014, 'Using probabilistic sampling-based sensitivity analyses for indoor air quality modelling' Paper presented at 13th International Conference on Indoor Air Quality and Climate, Indoor Air 2014, Hong Kong, Hong Kong, 7/07/14 - 12/07/14, pp. 553-555.

Sand, A & Rakkolainen, I 2014, A hand-held immaterial volumetric display. in *Proceedings of SPIE-IS and T Electronic Imaging - Stereoscopic Displays and Applications XXV.* vol. 9011, 90110Q, SPIE, 25th Stereoscopic Displays and Applications Conference, SD and A 2014, San Francisco, CA, United States, 3/02/14. <https://doi.org/10.1117/12.2035280>

Saintsing, CD, Cook, BS & Tentzeris, MM 2014, An origami inspired reconfigurable spiral antenna. in *38th Mechanisms and Robotics Conference.* vol. 5B, The American Society of Mechanical Engineers ASME, ASME 2014 International Design Engineering Technical Conferences and Computers and Information in Engineering Conference, IDETC/CIE 2014, Buffalo, United States, 17/08/14. <https://doi.org/10.1115/DETC201435353>

Thanisch, P, Lindell, T, Nummenmaa, J & Nummenmaa, T 2014, Avoiding anomalies when modeling a many-to-many relationship in a multidimensional database. in *BIR 2009 - 8th International Conference on Perspectives in Business Informatics Research.* Kristianstad Academic Press, 8th International Conference on Perspectives in Business Informatics Research, BIR 2009, Kristianstad, Sweden, 1/10/09.

Du, L, Prasauskas, T, Leivo, V, Turunen, M, Aaltonen, A, Kiviste, M, Martuzevicius, D & Haverinen-Shaughnessy, U 2014, Building energy-efficiency interventions in North-East Europe: Effects on indoor environmental quality and public health. in *Indoor Air 2014 - 13th International Conference on Indoor Air Quality and Climate.* International Society of Indoor Air Quality and Climate, pp. 637-639, 13th International Conference on Indoor Air Quality and Climate, Indoor Air 2014, Hong Kong, Hong Kong, 7/07/14.

Reponen, T, Saari, S, Mensah-Attipoe, J, Ukkonen, A, Veijalainen, A, Pasanen, P & Keskinen, J 2014, Characterization of charge in airborne fungal spores. in *Indoor Air 2014 - 13th International Conference on Indoor Air Quality and Climate.* International Society of Indoor Air Quality and Climate, pp. 359-361, 13th International Conference on Indoor Air Quality and Climate, Indoor Air 2014, Hong Kong, Hong Kong, 7/07/14.

- Cho, C, Yi, X, Wang, Y, Tentzeris, MM & Leon, RT 2014, Compressive strain measurement using RFID patch antenna sensors. in *Sensors and Smart Structures Technologies for Civil, Mechanical, and Aerospace Systems 2014*. vol. 9061, 90610X, SPIE, Sensors and Smart Structures Technologies for Civil, Mechanical, and Aerospace Systems 2014, San Diego, CA, United States, 10/03/14. <https://doi.org/10.1117/12.2045122>
- Yi, X, Cho, C, Wang, Y, Cook, B, Tentzeris, MM & Leon, RT 2014, Crack propagation measurement using a battery-free slotted patch antenna sensor. in *7th European Workshop on Structural Health Monitoring, EWSHM 2014 - 2nd European Conference of the Prognostics and Health Management (PHM) Society*. INRIA, pp. 1040-1047, 7th European Workshop on Structural Health Monitoring, EWSHM 2014, Nantes, France, 8/07/14.
- Emmert-Streib, F, de Matos Simoes, R, Glazko, G, McDade, S, Haibe-Kains, B, Holzinger, A, Dehmer, M & Campbell, F 2014, 'Functional and genetic analysis of the colon cancer network.', *BMC Bioinformatics*, vol. 15, no. Suppl 6, S6.
- Coatanéa, E, Nonsiri, S, Christophe, F & Mokammel, F 2014, Graph based representation and analyses for conceptual stages. in *34th Computers and Information in Engineering Conference*. vol. 1A, The American Society of Mechanical Engineers ASME, ASME 2014 International Design Engineering Technical Conferences and Computers and Information in Engineering Conference, IDETC/CIE 2014, Buffalo, United States, 17/08/14. <https://doi.org/10.1115/DETC201435652>
- Kärkkäinen, H, Myllärniemi, J, Okkonen, J & Silventoinen, A 2014, 'Maturity assessment for implementing and using product lifecycle management in project-oriented engineering companies', *International Journal of Electronic Business*, vol. 11, no. 2, pp. 176-198. <https://doi.org/10.1504/IJEB.2014.060218>
- Ye, C, Koponen, J, Aallos, V, Petit, L, Kimmelma, O & Kokki, T 2014, Mode coupling in few-mode large-mode-area fibers. in *Fiber Lasers XI: Technology, Systems, and Applications*. vol. 8961, 89612W, SPIE, Fiber Lasers XI: Technology, Systems, and Applications, San Francisco, CA, United States, 3/02/14. <https://doi.org/10.1117/12.2038575>
- Stumpel, JE, Broer, DJ, Bastiaansen, CWM & Schenning, APHJ 2014, Optical and topographic changes in water-responsive patterned cholesteric liquid crystalline polymer coatings. in *Proceedings of SPIE: Organic Photonics VI*. vol. 9137, 91370U, Proceedings of SPIE: the International Society for Optical Engineering, SPIE, Organic Photonics VI, Brussels, Belgium, 15/04/14. <https://doi.org/10.1117/12.2052678>
- Kantola, E, Leinonen, T, Ranta, S, Tavast, M & Guina, M 2014, Pulsed high-power yellow-orange VECSEL. in *Photonics Europe 2014, Semiconductor Lasers and Laser Dynamics VI, April 14-17, 2014, Brussels, Belgium. Proceedings of SPIE*. vol. 9134, 91340Z, SPIE Conference Proceedings, vol. 9134, SPIE, SPIE CONFERENCE PROCEEDINGS, 1/01/00. <https://doi.org/10.1117/12.2054716>
- Oulasvirta, A, Suomalainen, T, Hamari, J, Lampinen, A & Karvonen, K 2014, 'Transparency of intentions decreases privacy concerns in ubiquitous surveillance', *CYBERPSYCHOLOGY BEHAVIOR AND SOCIAL NETWORKING*, vol. 17, no. 10. <https://doi.org/10.1089/cyber.2013.0585>
- Iosifidis, A, Tefas, A & Pitas, I 2013, 'Learning sparse representations for view-independent human action recognition based on fuzzy distances', *Neurocomputing*, vol. 121, pp. 344-353. <https://doi.org/10.1016/j.neucom.2013.05.021>
- Altay, G, Kurt, Z, Dehmer, M & Emmert-Streib, F 2013, 'Netmes: Assessing gene network inference algorithms by network-based measures', *Evolutionary Bioinformatics*, vol. 10. <https://doi.org/10.4137/EBO.S13481>
- Paavilainen, J, Hamari, J, Stenros, J & Kinnunen, J 2013, 'Social Network Games: Players' Perspectives', *SIMULATION AND GAMING*, vol. 44, no. 6, pp. 794-820. <https://doi.org/10.1177/1046878113514808>
- Dander, A, Mueller, LAJ, Gallasch, R, Pabinger, S, Emmert-Streib, F, Graber, A & Dehmer, M 2013, '[COMMODE] a large-scale database of molecular descriptors using compounds from PubChem', *Source Code for Biology and Medicine*, vol. 8, 22. <https://doi.org/10.1186/1751-0473-8-22>
- Björninen, T, Moradi, E, Koski, K, Sydänheimo, L, Ukkonen, L, Muller, R, Ledochowitsch, P, Rabaey, JM & Rahmat-Samii, Y 2013, Wearable and implantable antennas for wireless body-centric sensing systems. in *BODYNETS 2013 - 8th International Conference on Body Area Networks*. ICST, pp. 288, 8th International Conference on Body Area Networks,

BODYNETS 2013, Boston, United States, 30/09/13. <https://doi.org/10.4108/icst.bodynets.2013.253580>

Sterpone, F, Nguyen, PH, Kalimeri, M & Derreumaux, P 2013, 'Importance of the ion-pair interactions in the OPEP coarse-grained force field: Parametrization and validation', *Journal of Chemical Theory and Computation*, vol. 9, no. 10, pp. 4574-4584. <https://doi.org/10.1021/ct4003493>

Raisamo, J, Raisamo, R & Surakka, V 2013, 'Comparison of Saltation, Amplitude Modulation, and a Hybrid Method of Vibrotactile Stimulation', *IEEE Transactions on Haptics*, vol. 6, no. 4, 6517847, pp. 517-521. <https://doi.org/10.1109/TOH.2013.25>

Faisal, A, Gillberg, J, Leen, G & Peltonen, J 2013, 'Transfer learning using a nonparametric sparse topic model', *Neurocomputing*, vol. 112, pp. 124-137. <https://doi.org/10.1016/j.neucom.2012.12.038>

Hamari, J 2013, 'Transforming homo economicus into homo ludens: A field experiment on gamification in a utilitarian peer-to-peer trading service', *Electronic Commerce Research and Applications*, vol. 12, no. 4, pp. 236-245. <https://doi.org/10.1016/j.elerap.2013.01.004>

Liuhanen, S, Sallisalml, M, Pettilä, V, Oksala, N & Tenhunen, J 2013, 'Indirect measurement of the vascular endothelial glycocalyx layer thickness in human submucosal capillaries with a plug-in for ImageJ', *Computer Methods and Programs in Biomedicine*, vol. 110, no. 1, pp. 38-47. <https://doi.org/10.1016/j.cmpb.2012.10.019>

Taylor, J, Biddulph, P, Davies, M, Ridley, I, Mavrogianni, A, Oikonomou, E & Lai, KM 2013, 'Using building simulation to model the drying of flooded building archetypes', *JOURNAL OF BUILDING PERFORMANCE SIMULATION*, vol. 6, no. 2, pp. 119-140. <https://doi.org/10.1080/19401493.2012.703243>

Karamanakos, P, Stolze, P, Kennel, R, Manias, S & Mouton, T 2013, Variable switching point predictive torque control. in *Proceedings - 2013 IEEE International Conference on Industrial Technology, ICIT 2013*. pp. 422-427, 2013 IEEE International Conference on Industrial Technology, ICIT 2013, Cape Town, South Africa, 25/02/13. <https://doi.org/10.1109/ICIT.2013.6505709>

Sudusinghe, K, Won, S, Van Der Schaar, M & Bhattacharyya, S 2013, A novel framework for design and implementation of adaptive stream mining systems. in *2013 IEEE International Conference on Multimedia and Expo, ICME 2013*, 6607565, 2013 IEEE International Conference on Multimedia and Expo, ICME 2013, San Jose, CA, United States, 15/07/13. <https://doi.org/10.1109/ICME.2013.6607565>

Carroll, R, Balasubramaniam, S, Suzuki, J, Lee, C, Donnelly, W & Botvich, D 2013, 'Bio-inspired service management framework: Green data-centres case study', *International Journal of Grid and Utility Computing*, vol. 4, no. 4, pp. 278-292. <https://doi.org/10.1504/IJGUC.2013.057115>

Nummenmaa, J, Marttila-Kontio, M & Nummenmaa, T 2013, Checking visual data flow programs with finite process models. in *13th Symposium on Programming Languages and Software Tools, SPLST 2013 - Proceedings*. University of Szeged, pp. 245-258, 13th Symposium on Programming Languages and Software Tools, SPLST 2013, Szeged, Hungary, 26/08/13.

Aluigi, L, Thai, TT, Tentzeris, MM, Roselli, L & Alimenti, F 2013, Chip-to-package wireless power transfer and its application to mm-Wave antennas and monolithic radiometric receivers. in *RSW 2013 - 2013 IEEE Radio and Wireless Symposium - RWW 2013*, 6486688, pp. 202-204, 2013 IEEE Radio and Wireless Symposium, RSW 2013 - 2013 7th IEEE Radio and Wireless Week, RWW 2013, Austin, TX, United States, 20/01/13. <https://doi.org/10.1109/RWS.2013.6486688>

Yi, X, Cho, C, Cook, B, Wang, Y, Tentzeris, MM & Leon, RT 2013, Design and simulation of a slotted patch antenna sensor for wireless strain sensing. in *Nondestructive Characterization for Composite Materials, Aerospace Engineering, Civil Infrastructure, and Homeland Security 2013*. vol. 8694, 86941J, Nondestructive Characterization for Composite Materials, Aerospace Engineering, Civil Infrastructure, and Homeland Security 2013, San Diego, CA, United States, 11/03/13. <https://doi.org/10.1117/12.2009233>

Rosa, FD, Paakki, T, Nurmi, J & Pelosi, M 2013, Exploiting RSS measurements among neighbouring devices: A matter of trust. in *2013 International Conference on Indoor Positioning and Indoor Navigation, IPIN 2013*. IEEE COMPUTER SOCIETY PRESS, 2013 International Conference on Indoor Positioning and Indoor Navigation, IPIN 2013, Montbeliard-Belfort, France, 28/10/13. <https://doi.org/10.1109/IPIN.2013.6817902>

Helminen, J, Ihanola, P, Karavirta, V & Alaoutinen, S 2013, How do students solve parsons programming problems? - Execution-based vs. line-based feedback. in *Proceedings - 2013 Learning and Teaching in Computing and Engineering, LaTiCE 2013*, 6542239, pp. 55-61, 1st International Conference on Learning and Teaching in Computing and Engineering, LaTiCE 2013, Macau, Macao, 21/03/13. <https://doi.org/10.1109/LaTiCE.2013.26>

Le, T, Lin, Z, Vyas, R, Lakafosis, V, Yang, L, Traille, A, Tentzeris, MM & Wong, CP 2013, 'Inkjet printing of radio frequency electronics: Design methodologies and application of novel nanotechnologies', *Journal of Electronic Packaging*, vol. 135, no. 1, 011007. <https://doi.org/10.1115/1.4023671>

Belahcen, A, Fonteyn, K, Kouhia, R, Rasilo, P & Arkkio, A 2013, 'Magnetomechanical coupled FE simulations of rotating electrical machines', *COMPEL: The International Journal for Computation and Mathematics in Electrical and Electronic Engineering*, vol. 32, no. 5, 17095978, pp. 1484-1499. <https://doi.org/10.1108/COMPEL-04-2013-0109>

Iosifidis, A, Tefas, A & Pitas, I 2013, 'Multidimensional sequence classification based on fuzzy distances and discriminant analysis', *IEEE Transactions on Knowledge and Data Engineering*, vol. 25, no. 11, pp. 2564-2575. <https://doi.org/10.1109/TKDE.2012.223>

Yi, X, Wang, Y, Tentzeris, MM & Leon, RT 2013, Multi-physics modeling and simulation of a slotted patch antenna for wireless strain sensing. in *Structural Health Monitoring 2013: A Roadmap to Intelligent Structures - Proceedings of the 9th International Workshop on Structural Health Monitoring, IWSHM 2013*. vol. 2, DEStech Publications, pp. 1857-1864, 9th International Workshop on Structural Health Monitoring: A Roadmap to Intelligent Structures, IWSHM 2013, Stanford, United States, 10/09/13.

Iosifidis, A, Tefas, A & Pitas, I 2013, 'On the optimal class representation in linear discriminant analysis', *IEEE Transactions on Neural Networks and Learning Systems*, vol. 24, no. 9, pp. 1491-1497. <https://doi.org/10.1109/TNNLS.2013.2258937>

Iosifidis, A, Tefas, A & Pitas, I 2013, Person identification from actions based on dynemes and discriminant learning. in *2013 International Workshop on Biometrics and Forensics, IWBF 2013*. 1st International Workshop on Biometrics and Forensics, IWBF 2013, Lisbon, Portugal, 4/04/13. <https://doi.org/10.1109/IWBF.2013.6547320>

Lin, Z, Le, T, Song, X, Yao, Y, Li, Z, Moon, KS, Tentzeris, MM & Wong, CP 2013, 'Preparation of water-based carbon nanotube inks and application in the inkjet printing of carbon nanotube gas sensors', *Journal of Electronic Packaging*, vol. 135, no. 1, 011001. <https://doi.org/10.1115/1.4023758>

Karavirta, V, Ihanola, P & Koskinen, T 2013, Service-oriented approach to improve interoperability of e-learning systems. in *Proceedings - 2013 IEEE 13th International Conference on Advanced Learning Technologies, ICALT 2013*, 6601947, pp. 341-345, 2013 IEEE 13th International Conference on Advanced Learning Technologies, ICALT 2013, Beijing, China, 15/07/13. <https://doi.org/10.1109/ICALT.2013.105>

Mokammel, F, Coatanea, E, Christophe, F, Ba Khouya, M & Medyna, G 2013, Towards an approach for evaluating the quality of requirements. in *33rd Computers and Information in Engineering Conference*. vol. 2 B, V02BT02A024, American Society of Mechanical Engineers, ASME 2013 International Design Engineering Technical Conferences and Computers and Information in Engineering Conference, IDETC/CIE 2013, Portland, OR, United States, 4/08/13. <https://doi.org/10.1115/DETC2013-13708>

Iosifidis, A, Tefas, A & Pitas, I 2013, View-independent human action recognition based on multi-view action images and discriminant learning. in *2013 IEEE 11th IVMSWP Workshop: 3D Image/Video Technologies and Applications, IVMSWP 2013 - Proceedings*. 2013 IEEE 11th Workshop on 3D Image/Video Technologies and Applications, IVMSWP 2013, Seoul, Korea, Republic of, 10/06/13. <https://doi.org/10.1109/IVMSWPW.2013.6611931>

- Kawahara, Y, Wei, W, Narusue, Y, Shigeta, R, Asami, T & Tentzeris, M 2013, Virtualizing power cords by wireless power transmission and energy harvesting. in *RSW 2013 - 2013 IEEE Radio and Wireless Symposium - RWW 2013.*, 6486633, pp. 37-39, 2013 IEEE Radio and Wireless Symposium, RSW 2013 - 2013 7th IEEE Radio and Wireless Week, RWW 2013, Austin, TX, United States, 20/01/13. <https://doi.org/10.1109/RWS.2013.6486633>
- Pons, P, Aubert, H & Tentzeris, M 2013, Wireless chipless passive electromagnetic transducers for SHM applications. in *Structural Health Monitoring 2013: A Roadmap to Intelligent Structures - Proceedings of the 9th International Workshop on Structural Health Monitoring, IWSHM 2013.* vol. 1, DEStech Publications, pp. 577-584, 9th International Workshop on Structural Health Monitoring: A Roadmap to Intelligent Structures, IWSHM 2013, Stanford, United States, 10/09/13.
- Rahmatallah, Y, Emmert-Streib, F & Glazko, G 2012, 'Gene set analysis for self-contained tests: Complex null and specific alternative hypotheses', *Bioinformatics*, vol. 28, no. 23, pp. 3073-3080. <https://doi.org/10.1093/bioinformatics/bts579>
- Makni, N, Puech, P, Colin, P, Azzouzi, A, Mordon, S & Betrouni, N 2012, 'Elastic image registration for guiding focal laser ablation of prostate cancer: Preliminary results', *Computer Methods and Programs in Biomedicine*, vol. 108, no. 1, pp. 213-223. <https://doi.org/10.1016/j.cmpb.2012.04.001>
- Kouhia, R, Tüma, M, Mäkinen, J, Fedoroff, A & Marjamäki, H 2012, 'Implementation of a direct procedure for critical point computations using preconditioned iterative solvers', *Computers & Structures*, vol. 108-109, pp. 110-117. <https://doi.org/10.1016/j.compstruc.2012.02.009>
- Ma, L, Atta-Fynn, R & Ray, AK 2012, 'Elemental and mixed actinide dioxides: An ab initio study', *Journal of Theoretical and Computational Chemistry*, vol. 11, no. 3, pp. 611-629. <https://doi.org/10.1142/S021963361250040X>
- Karppi, T & Sotamaa, O 2012, 'Rethinking Playing Research: DJ HERO and Methodological Observations in the Mix', *SIMULATION AND GAMING*, vol. 43, no. 3, pp. 413-429. <https://doi.org/10.1177/1046878111434263>
- Stenos, J, Waern, A & Montola, M 2012, 'Studying the Elusive Experience in Pervasive Games', *SIMULATION AND GAMING*, vol. 43, no. 3, pp. 339-355. <https://doi.org/10.1177/1046878111422532>
- de Matos Simoes, R, Tripathi, S & Emmert-Streib, F 2012, 'Organizational structure and the periphery of the gene regulatory network in B-cell lymphoma.', *BMC Systems Biology*, vol. 6, 38. <https://doi.org/10.1186/1752-0509-6-38>
- Atakan, B, Akan, OB & Balasubramaniam, S 2012, 'Body area nanonetworks with molecular communications in nanomedicine', *IEEE Communications Magazine*, vol. 50, no. 1, 6122529, pp. 28-34. <https://doi.org/10.1109/MCOM.2012.6122529>
- Jin, M, Zhou, X, Zhang, ZM & Tentzeris, MM 2012, 'Short-term power load forecasting using grey correlation contest modeling', *Expert Systems with Applications*, vol. 39, no. 1, pp. 773-779. <https://doi.org/10.1016/j.eswa.2011.07.072>
- Caraffi, C, Vojir, T, Trefný, J, Šochman, J & Matas, J 2012, A system for real-time detection and tracking of vehicles from a single car-mounted camera. in *2012 15th International IEEE Conference on Intelligent Transportation Systems, ITSC 2012.*, 6338748, pp. 975-982, 2012 15th International IEEE Conference on Intelligent Transportation Systems, ITSC 2012, Anchorage, AK, United States, 16/09/12. <https://doi.org/10.1109/ITSC.2012.6338748>
- 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*, vol. 14, no. 3 PART1, 6172244, pp. 630-640. <https://doi.org/10.1109/TMM.2012.2191397>
- Evreinova, TV, Evreinov, G & Raisamo, R 2012, 'Evaluation of effectiveness of the stickgrip device for detecting the topographic heights on digital maps', *INTERNATIONAL JOURNAL OF COMPUTER SCIENCE AND APPLICATIONS*, vol. 9, no. 3, pp. 61-76.

Gizatdinova, Y, Spakov, Ö & Surakka, V 2012, Face typing: Vision-based perceptual interface for hands-free text entry with a scrollable virtual keyboard. in *2012 IEEE Workshop on the Applications of Computer Vision, WACV 2012.*, 6162997, pp. 81-87, 2012 IEEE Workshop on the Applications of Computer Vision, WACV 2012, Breckenridge, CO, United States, 9/01/12. <https://doi.org/10.1109/WACV.2012.6162997>

Berlinicke, CA, Ackermann, CF, Chen, SH, Schulze, C, Shafranovich, Y, Myneni, S, Patel, VL, Wang, J, Zack, DJ, Lindvall, M & Bova, GS 2012, 'High-content screening data management for drug discovery in a small- to medium- size laboratory: Results of a collaborative pilot study focused on user expectations as indicators of effectiveness', *JALA: JOURNAL OF LABORATORY AUTOMATION*, vol. 17, no. 4, pp. 255-265. <https://doi.org/10.1177/2211068211431207>

Suzuki, J, Balasubramaniam, S & Prina-Mello, A 2012, Multiobjective TDMA optimization for neuron-based molecular communication. in *BODYNETS 2012 - 7th International Conference on Body Area Networks*. ICST, 7th International Conference on Body Area Networks, BODYNETS 2012, Oslo, Norway, 24/09/12. <https://doi.org/10.4108/icst.bodynets.2012.250037>

Lavazza, L, Morasca, S, Taibi, D & Tosi, D 2012, 'On the definition of dynamic software measures', *International Symposium on Empirical Software Engineering and Measurement*, pp. 39-48. <https://doi.org/10.1145/2372251.2372259>

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. in *ICSP 2012 - 2012 11th International Conference on Signal Processing, Proceedings*. vol. 1, 6491686, pp. 402-408, 2012 11th International Conference on Signal Processing, ICSP 2012, Beijing, China, 21/10/12. <https://doi.org/10.1109/ICoSP.2012.6491686>

Yi, X, Vyas, R, Cho, C, Fang, CH, Cooper, J, Wang, Y, Leon, RT & Tentzeris, MM 2012, Thermal effects on a passive wireless antenna sensor for strain and crack sensing. in *Sensors and Smart Structures Technologies for Civil, Mechanical, and Aerospace Systems 2012*. vol. 8345, 83450F, Sensors and Smart Structures Technologies for Civil, Mechanical, and Aerospace Systems 2012, San Diego, CA, United States, 12/03/12. <https://doi.org/10.1117/12.914833>

Hulka, I, Şerban, VA, Uţu, D, Koivuluoto, H, Vuoristo, P & Niemi, K 2012, Wear and corrosion behaviour of HVOF coatings engineered from conventional WC-Co-Cr and conventional WC-Co-Cr added nanostructured Wc-Co powders. in *NANOCON 2012 - Conference Proceedings, 4th International Conference*. TANGER Ltd., pp. 322-327, 4th International Conference NANOCON 2012, Brno, Czech Republic, 23/10/12.

Galluccio, L, Akan, OB, Balasubramaniam, S & Sivakumar, R 2012, 'Wireless communications at the nanoscale', *IEEE Wireless Communications*, vol. 19, no. 5, 6339466, pp. 10-11. <https://doi.org/10.1109/MWC.2012.6339466>

Aubert, H, Chebila, F, Jatlou, M, Thai, T, Hallil, H, Traille, A, Bouaziz, S, Rifai, A, Pons, P, Menini, P & Tentzeris, M 2012, Wireless sensing and identification of passive electromagnetic sensors based on millimetre-wave FMCW RADAR. in *2012 IEEE International Conference on RFID-Technologies and Applications, RFID-TA 2012.*, 6404554, pp. 398-403, 2012 IEEE International Conference on RFID-Technologies and Applications, RFID-TA 2012, Nice, France, 5/11/12. <https://doi.org/10.1109/RFID-TA.2012.6404554>

Mueller, LAJ, Kugler, KG, Graber, A, Emmert-Streib, F & Dehmer, M 2011, 'Structural Measures for Network Biology Using QuACN', *BMC Bioinformatics*, vol. 12, no. 1, 492. <https://doi.org/10.1186/1471-2105-12-492>

Foley, C, Balasubramaniam, S, Botvich, D, Donnelly, W, Michaelis, S, Schmutzler, J & Stair, T 2011, Distributed pervasive services using group service communication supporting body area networks. in *BODYNETS 2008 - 3rd International ICST Conference on Body Area Networks*. ICST, 3rd International ICST Conference on Body Area Networks, BODYNETS 2008, Tempe, United States, 13/03/08. <https://doi.org/10.4108/ICST.BODYNETS2008.2960>

Balasubramaniam, S, Leibnitz, K, Lio, P, Botvich, D & Murata, M 2011, 'Biological principles for future Internet architecture design', *IEEE Communications Magazine*, vol. 49, no. 7, 5936154, pp. 44-52. <https://doi.org/10.1109/MCOM.2011.5936154>

Stenros, J, Paavilainen, J & Mäyrä, F 2011, 'Social interaction in games', *International Journal of Arts and Technology*, vol. 4, no. 3, pp. 342-358. <https://doi.org/10.1504/IJART.2011.041486>

Yu, G, Zhang, B, Bova, GS, Xu, J, Shih, IM & Wang, Y 2011, 'BACOM: In silico detection of genomic deletion types and correction of normal cell contamination in copy number data', *Bioinformatics*, vol. 27, no. 11, btr183, pp. 1473-1480. <https://doi.org/10.1093/bioinformatics/btr183>

Hsu, CJ, Pino, JL & Bhattacharyya, SS 2011, 'Multithreaded simulation for synchronous dataflow graphs', *ACM Transactions on Design Automation of Electronic Systems*, vol. 16, no. 3, 25. <https://doi.org/10.1145/1970353.1970358>

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*, vol. 27, no. 4, 045003. <https://doi.org/10.1088/0266-5611/27/4/045003>

Pajarinen, J, Peltonen, J & Uusitalo, MA 2011, 'Fault tolerant machine learning for nanoscale cognitive radio', *Neurocomputing*, vol. 74, no. 5, pp. 753-764. <https://doi.org/10.1016/j.neucom.2010.10.007>

Shen, CC, Wu, HH, Sane, N, Plishker, W & Bhattacharyya, SS 2011, A design tool for efficient mapping of multimedia applications onto heterogeneous platforms. in *Electronic Proceedings of the 2011 IEEE International Conference on Multimedia and Expo, ICME 2011.*, 6011952, 2011 12th IEEE International Conference on Multimedia and Expo, ICME 2011, Barcelona, Spain, 11/07/11. <https://doi.org/10.1109/ICME.2011.6011952>

Carminati, B, Ferrari, E, Morasca, S & Taibi, D 2011, A probability-based approach to modeling the risk of unauthorized propagation of information in on-line social networks. in *CODASPY'11 - Proceedings of the 1st ACM Conference on Data and Application Security and Privacy*. pp. 51-61, 1st ACM Conference on Data and Application Security and Privacy, CODASPY'11, San Antonio, TX, United States, 21/02/11. <https://doi.org/10.1145/1943513.1943522>

Carroll, R, Balasubramaniam, S, Botvich, D & Donnelly, W 2011, Bio-inspired service management framework: Green data-centres case study. in *Proceedings - 25th IEEE International Conference on Advanced Information Networking and Applications Workshops, WAINA 2011.*, 5763678, pp. 226-231, 25th IEEE International Conference on Advanced Information Networking and Applications Workshops, WAINA 2011, Biopolis, Singapore, 22/03/11. <https://doi.org/10.1109/WAINA.2011.119>

Nummenmaa, J & Nummenmaa, T 2011, Database-driven tool support for DisCo executable specifications. in *SPLST'11 - Proceedings 12th Symposium on Programming Languages and Software Tools*. pp. 44-54, 12th Symposium on Programming Languages and Software Tools, SPLST 2011, Tallinn, Estonia, 5/11/11.

Kalb, H, Pirkkalainen, H, Pawlowski, J & Schoop, E 2011, Influence factors for sharing open science and open educational resources through social networking services. in *6th Conference on Professional Knowledge Management: From Knowledge to Action - Proceedings*. vol. P-182, Gesellschaft fur Informatik (GI), pp. 23-32, 6th Conference on Professional Knowledge Management: From Knowledge to Action, KM 2011, Innsbruck, Austria, 21/02/11.

Sapaev, UK, Yusupov, DB & Assanto, G 2011, Multicolor nonlinear pulse compression by consecutive optical parametric amplification in quasi-phase matched structures. in *ICONO 2010: International Conference on Coherent and Nonlinear Optics*. vol. 7993, 79930Q, ICONO 2010: International Conference on Coherent and Nonlinear Optics, Kazan, Russian Federation, 23/08/10. <https://doi.org/10.1117/12.882887>

Ivanov, S, Botvich, D & Balasubramaniam, S 2011, On delay distribution in IEEE 802.11 wireless networks. in *16th IEEE Symposium on Computers and Communications, ISCC'11.*, 5983849, pp. 254-256, 16th IEEE Symposium on Computers and Communications, ISCC'11, Corfu, Greece, 28/06/11. <https://doi.org/10.1109/ISCC.2011.5983849>