

Klock, Ana Carolina Tomé ; Gasparini, Isabela ; Pimenta, Marcelo Soares ; Hamari, Juho. / **Tailored gamification : A review of literature**. In: International Journal of Human Computer Studies. 2020 ; Vol. 144.

Legaki, Nikoletta Zampeta ; Xi, Nannan ; Hamari, Juho ; Karpouzis, Kostas ; Assimakopoulos, Vassilios. / **The effect of challenge-based gamification on learning : An experiment in the context of statistics education**. In: International Journal of Human Computer Studies. 2020 ; Vol. 144.

Lenarduzzi, Valentina ; Saarimäki, Nyyti ; Taibi, Davide. / **Some SonarQube issues have a significant but small effect on faults and changes. A large-scale empirical study**. In: Journal of Systems and Software. 2020 ; Vol. 170.

Turunen, Esko. / **Necessary and sufficient conditions for the existence of solution of generalized fuzzy relation equations $A \leftrightarrow X = B$** . In: Information Sciences. 2020 ; Vol. 536. pp. 351-357.

Tsantekidis, Avraam ; Passalis, Nikolaos ; Tefas, Anastasios ; Kannianen, Juho ; Gabbouj, Moncef ; Iosifidis, Alexandros. / **Using Deep Learning for price prediction by exploiting stationary limit order book features**. In: Applied Soft Computing Journal. 2020 ; Vol. 93.

Lampinen, Santeri ; Niemi, Jouni ; Mattila, Jouni. / **Flow-bounded trajectory-scaling algorithm for hydraulic robotic manipulators**. 2020 IEEE/ASME International Conference on Advanced Intelligent Mechatronics, AIM 2020. IEEE, 2020. pp. 619-624 (IEEE/ASME International Conference on Advanced Intelligent Mechatronics, AIM).

Ghorbani, Modjtaba ; Dehmer, Matthias ; Cao, Shujuan ; Feng, Lihua ; Tao, Jin ; Emmert-Streib, Frank. / **On the zeros of the partial Hosoya polynomial of graphs**. In: Information Sciences. 2020 ; Vol. 524. pp. 199-215.

Lemmetti, Ari ; Viitanen, Marko ; Mercat, Alexandre ; Vanne, Jarno. / **Kvazaar 2.0 : Fast and efficient open-source HEVC inter encoder**. MMSys 2020 - Proceedings of the 2020 Multimedia Systems Conference. ACM, 2020. pp. 237-242

Passalis, Nikolaos ; Tefas, Anastasios ; Kannianen, Juho ; Gabbouj, Moncef ; Iosifidis, Alexandros. / **Adaptive Normalization for Forecasting Limit Order Book Data Using Convolutional Neural Networks**. 2020 IEEE International Conference on Acoustics, Speech, and Signal Processing, ICASSP 2020 - Proceedings. IEEE, 2020. pp. 1713-1717 (ICASSP, IEEE International Conference on Acoustics, Speech and Signal Processing - Proceedings).

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

Frimpong, Eugene ; Michalas, Antonios. / **SeCon-NG : Implementing a lightweight cryptographic library based on ECDH and ECDSA for the development of secure and privacy-preserving protocols in contiki-NG**. 35th Annual ACM Symposium on Applied Computing, SAC 2020. ACM, 2020. pp. 767-769

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

Nupponen, Jussi ; Taibi, Davide. / **Serverless : What it Is, What to Do and What Not to Do**. 2020 IEEE International Conference on Software Architecture Companion, ICSA-C 2020. IEEE, 2020. pp. 49-50

Zolfaghari, Hesam ; Rossi, Davide ; Nurmi, Jari. / **A custom processor for protocol-independent packet parsing**. In: Microprocessors and Microsystems. 2020 ; Vol. 72.

Lenarduzzi, Valentina ; Lomio, Francesco ; Huttunen, Heikki ; Taibi, Davide. / **Are SonarQube Rules Inducing Bugs?**. SANER 2020 - Proceedings of the 2020 IEEE 27th International Conference on Software Analysis, Evolution, and Reengineering. editor / Kostas Kontogiannis ; Foutse Khomh ; Alexander Chatzigeorgiou ; Marios-Eleftherios Fokaefs ; Minghui Zhou. IEEE, 2020. pp. 501-511

Li, Xiaozhou ; Zhang, Boyang. / **A preliminary network analysis on steam game tags : Another way of understanding game genres.** AcademicMindtrek 2020 - Proceedings of the 23rd International Academic Mindtrek Conference: January 29-30, 2020, Tampere, Finland. ACM, 2020. pp. 65-73

Beheshtian, Nasim ; Kaipainen, Kirsikka ; Kähkönen, Kalle ; Ahtinen, Aino. / **Color game : A collaborative social robotic game for icebreaking; Towards the design of robotic ambiances as part of smart building services.** AcademicMindtrek 2020 - Proceedings of the 23rd International Academic Mindtrek Conference: January 2020, Tampere. ACM, 2020. pp. 10-19

Korkeila, Henry ; Koivisto, Jonna ; Hamari, Juho. / **Demographic differences in accumulated types of capital in massively multiplayer online role-playing games.** AcademicMindtrek 2020 - Proceedings of the 23rd International Academic Mindtrek Conference: January 2020, Tampere. ACM, 2020. pp. 74-82

Jokiniemi, Sini ; Myllärniemi, Jussi ; Poranen, Timo ; Vuorenmaa, Marika. / **Innovation challenges as a novel multidisciplinary learning platform.** AcademicMindtrek 2020 - Proceedings of the 23rd International Academic Mindtrek Conference: January 2020, Tampere. ACM, 2020. pp. 145-148

Bujic, Mila ; Hamari, Juho. / **Satisfaction and willingness to consume immersive journalism : Experiment of differences between VR, 360 video, and article.** AcademicMindtrek 2020 - Proceedings of the 23rd International Academic Mindtrek Conference: January 2020, Tampere. ACM, 2020. pp. 120-125

Niemelä, Marketta ; Ahtinen, Aino ; Turunen, Markku. / **Social human-robot interaction in the wild : A workshop proposal for academic mindtrek 2020.** AcademicMindtrek 2020 - Proceedings of the 23rd International Academic Mindtrek Conference: January 2020, Tampere. ACM, 2020. pp. 168-169

Chowdhury, Aparajita ; Ahtinen, Aino ; Kaipainen, Kirsikka. / **"The superhero of the university" : Experience-driven design and field study of the university guidance robot.** AcademicMindtrek 2020 - Proceedings of the 23rd International Academic Mindtrek Conference: January 2020, Tampere. ACM, 2020. pp. 1-9

Yan, Song ; Wirta, Johan ; Kämäräinen, Joni-Kristian. / **Anthropometric clothing measurements from 3D body scans.** In: Machine Vision and Applications. 2020 ; Vol. 31, No. 1-2.

Li, Meiling ; Alhussein, Omar ; Sofotasios, Paschalis C. ; Muhaidat, Sami ; Yoo, Paul D. ; Liang, Jie ; Wang, Anhong. / **Sensor-Based Cooperative Multi-Antenna Spectrum Sensing with Imperfect Reporting Channels.** In: IEEE Transactions on Sustainable Computing. 2020 ; Vol. 5, No. 1. pp. 48-60.

Belyaev, Evgeny ; Codreanu, Marian ; Juntti, Markku ; Egiazarian, Karen. / **Compressive sensed video recovery via iterative thresholding with random transforms.** In: IET Image Processing. 2020 ; Vol. 14, No. 6. pp. 1187-1200.

Lenarduzzi, Valentina ; Nikkola, Vili ; Saarimäki, Nytyi ; Taibi, Davide. / **Does code quality affect pull request acceptance? An empirical study.** In: Journal of Systems and Software. 2020 ; Vol. 171.

Lenarduzzi, Valentina ; Lomio, Francesco ; Saarimäki, Nytyi ; Taibi, Davide. / **Does migrating a monolithic system to microservices decrease the technical debt?.** In: Journal of Systems and Software. 2020 ; Vol. 169.

Houbre, Quentin ; Angleraud, Alexandre ; Pieters, Roel. / **Exploration and exploitation of sensorimotor contingencies for a cognitive embodied agent.** ICAART 2020 - Proceedings of the 12th International Conference on Agents and Artificial Intelligence. editor / Ana Rocha ; Luc Steels ; Jaap van den Herik. Vol. 2 SCITEPRESS, 2020. pp. 546-554

Ali, Ihtisham ; Durmush, Ahmed ; Suominen, Olli ; Yli-Hietanen, Jari ; Peltonen, Sari ; Collin, Jussi ; Gotchev, Atanas. / **FinnForest dataset : A forest landscape for visual SLAM.** In: ROBOTICS AND AUTONOMOUS SYSTEMS. 2020 ; Vol. 132.

Frimpong, Eugene ; Michalas, Antonis. / **IoT-CryptoDiet : Implementing a lightweight cryptographic library based on ecdh and ecdsa for the development of secure and privacy-preserving protocols in contiki-ng.** IoTBDS 2020 - Proceedings of the 5th International Conference on Internet of Things, Big Data and Security. editor / Gary Wills ; Peter Kacsuk ; Victor Chang. SCITEPRESS, 2020. pp. 101-111

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

Baldassarre, Maria Teresa ; Lenarduzzi, Valentina ; Romano, Simone ; Saarimäki, Nyti. / **On the diffuseness of technical debt items and accuracy of remediation time when using SonarQube.** In: Information and Software Technology. 2020 ; Vol. 128.

Taibi, Davide ; El Ioini, Nabil ; Pahl, Claus ; Niederkofler, Jan Raphael Schmid. / **Patterns for serverless functions (Function-as-a-Service) : A multivocal literature review.** CLOSER 2020 - Proceedings of the 10th International Conference on Cloud Computing and Services Science. editor / Donald Ferguson ; Markus Helfert ; Claus Pahl. Vol. 1 SCITEPRESS, 2020. pp. 181-192

Mäkinen, Petri ; Mustalahti, Pauli ; Launis, Sirpa ; Mattila, Jouni. / **Redundancy-based visual tool center point pose estimation for long-reach manipulators.** 2020 IEEE/ASME International Conference on Advanced Intelligent Mechatronics, AIM 2020. IEEE, 2020. pp. 1387-1393 (IEEE/ASME International Conference on Advanced Intelligent Mechatronics).

Ahmad, Waqas ; Vagharshakyan, Suren ; Sjostrom, Marten ; Gotchev, Atanas ; Bregovic, Robert ; Olsson, Roger. / **Shearlet Transform-Based Light Field Compression under Low Bitrates.** In: IEEE Transactions on Image Processing. 2020 ; Vol. 29. pp. 4269-4280.

Holm, Jukka ; Väänänen, Kaisa ; Battah, Anas. / **User experience of stereo and spatial audio in 360° live music videos.** AcademicMindtrek 2020 - Proceedings of the 23rd International Academic Mindtrek Conference: January 2020, Tampere. ACM, 2020. pp. 134-141

Varkoi, Timo ; Mäkinen, Timo ; Cameron, Frank ; Nevalainen, Risto. / **Validating effectiveness of safety requirements' compliance evaluation in process assessments.** In: Journal of Software: Evolution and Process. 2020 ; Vol. 32, No. 3.

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

Sievi-Korte, Outi ; Richardson, Ita ; Beecham, Sarah. / **Software architecture design in global software development : An empirical study.** In: Journal of Systems and Software. 2019 ; Vol. 158.

Burova, Alisa ; Kelling, Chelsea ; Keskinen, Tuuli ; Hakulinen, Jaakko ; Kallioniemi, Pekka ; Väätäjä, Heli ; Turunen, Markku. / **Promoting local culture and enriching airport experiences through interactive storytelling.** MUM 2019 - 18th International Conference on Mobile and Ubiquitous Multimedia, Proceedings. editor / Giulio Jacucci ; Fabio Paterno ; Michael Rohs ; Carmen Santoro. Association for Computing Machinery, 2019. (ACM International Conference Proceeding Series).

Amaral, Vasco ; Norberto, Beatriz ; Goulão, Miguel ; Aldinucci, Marco ; Benkner, Siegfried ; Bracciali, Andrea ; Carreira, Paulo ; Celms, Edgars ; Correia, Luís ; Grelck, Clemens ; Karatza, Helen ; Kessler, Christoph ; Kilpatrick, Peter ; Martiniano, Hugo ; Mavridis, Ilias ; Pllana, Sabri ; Respício, Ana ; Simão, José ; Veiga, Luís ; Visa, Ari. / **Programming languages for data-intensive HPC applications : A systematic mapping study.** In: Parallel Computing. 2019 ; Vol. 91.

Mäkitalo, Niko ; Aaltonen, Timo ; Raatikainen, Mikko ; Ometov, Aleksandr ; Andreev, Sergey ; Koucheryavy, Yevgeni ; Mikkonen, Tommi. / **Action-Oriented Programming Model : Collective Executions and Interactions in the Fog.** In: Journal of Systems and Software. 2019 ; Vol. 157.

Vajaranta, Markku ; Oinonen, Arto ; Hämäläinen, Timo D. ; Viitamäki, Vili ; Markunmäki, J. ; Kulmala, Ari. / **Feasibility of FPGA accelerated IPsec on cloud**. In: Microprocessors and Microsystems. 2019 ; Vol. 71.

Jylhä, Henrietta ; Hamari, Juho. / **An icon that everyone wants to click : How perceived aesthetic qualities predict app icon successfulness**. In: International Journal of Human Computer Studies. 2019 ; Vol. 130. pp. 73-85.

Räsänen, Okko ; Seshadri, Shreyas ; Karadayi, Julien ; Riebling, Eric ; Bunce, John ; Cristia, Alejandrina ; Metze, Florian ; Casillas, Marisa ; Rosenberg, Celia ; Bergelson, Erika ; Soderstrom, Melanie. / **Automatic word count estimation from daylong child-centered recordings in various language environments using language-independent syllabification of speech**. In: Speech Communication. 2019 ; Vol. 113. pp. 63-80.

Lwakatare, Lucy Ellen ; Kilamo, Terhi ; Karvonen, Teemu ; Sauvola, Tanja ; Heikkilä, Ville ; Itkonen, Juha ; Kuvaja, Pasi ; Mikkonen, Tommi ; Oivo, Markku ; Lassenius, Casper. / **DevOps in practice : A multiple case study of five companies**. In: Information and Software Technology. 2019 ; Vol. 114. pp. 217-230.

Simmons, Nidhi ; Nogueira Da Silva, Carlos Rafael ; Cotton, Simon L. ; Sofotasios, Paschalis C. ; Ki Yoo, Seong ; Yacoub, Michel Daoud. / **The Double Shadowed κ - μ Fading Model**. 2019 International Conference on Wireless and Mobile Computing, Networking and Communications, WiMob 2019. IEEE, 2019. (International Conference on Wireless and Mobile Computing, Networking and Communications).

Amestoy, Thomas ; Mercat, Alexandre ; Hamidouche, Wassim ; Menard, Daniel ; Bergeron, Cyril. / **Tunable VVC Frame Partitioning based on Lightweight Machine Learning**. In: IEEE Transactions on Image Processing. 2019.

Hella, Lauri ; Kuusisto, Antti ; Meier, Arne ; Virtema, Jonni. / **Model checking and validity in propositional and modal inclusion logics**. In: JOURNAL OF LOGIC AND COMPUTATION. 2019 ; Vol. 29, No. 5. pp. 605-630.

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

Lu, Chien ; Peltonen, Jaakko ; Nummenmaa, Timo. / **Game postmortems vs. developer Reddit AMAs : Computational analysis of developer communication**. Proceedings of the 14th International Conference on the Foundations of Digital Games, FDG 2019. editor / Foad Khosmood ; Johanna Pirker ; Thomas Apperley ; Sebastian Deterding. ACM, 2019.

Nummenmaa, Timo ; Kankainen, Ville. / **Social features in hybrid board game marketing material**. Proceedings of the 14th International Conference on the Foundations of Digital Games, FDG 2019. editor / Foad Khosmood ; Johanna Pirker ; Thomas Apperley ; Sebastian Deterding. ACM, 2019.

Arcelli Fontana, Francesca ; Lenarduzzi, Valentina ; Roveda, Riccardo ; Taibi, Davide. / **Are architectural smells independent from code smells? An empirical study**. In: Journal of Systems and Software. 2019 ; Vol. 154. pp. 139-156.

Silverajan, Bilhanan ; Vistiaho, Petteri. / **Enabling cybersecurity incident reporting and coordinated handling for maritime sector**. 2019 14th Asia Joint Conference on Information Security, AsiaJCIS 2019. IEEE, 2019. pp. 88-95

Yu, Guihai ; Dehmer, Matthias ; Emmert-Streib, Frank ; Jodlbauer, Herbert. / **Hermitian normalized Laplacian matrix for directed networks**. In: Information Sciences. 2019 ; Vol. 495. pp. 175-184.

Zare, Marzieh ; Huova, Mikko ; Visa, Ari ; Launis, Sirpa. / **Real-time online drilling vibration analysis using data mining**. Proceedings of the 2019 2nd International Conference on Data Science and Information Technology, DSIT 2019. ACM, 2019. pp. 175-180

Robertsén, Fredrik ; Mattila, Keijo ; Westerholm, Jan. / **High-performance SIMD implementation of the lattice-Boltzmann method on the Xeon Phi processor**. In: Concurrency Computation. 2019 ; Vol. 31, No. 13.

Diment, Aleksandr ; Fagerlund, Eemi ; Benfield, Adrian ; Virtanen, Tuomas. / **Detection of Typical Pronunciation Errors in Non-native English Speech Using Convolutional Recurrent Neural Networks**. 2019 International Joint Conference on Neural Networks, IJCNN 2019. IEEE, 2019.

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

Altonen, Aaro ; Viitanen, Marko ; Räsänen, Joni ; Mercat, Alexandre ; Vanne, Jarno. / **Public and open HEVC encoding service in the cloud**. Proceedings of the 10th ACM Multimedia Systems Conference, MMSys 2019. ACM, 2019. pp. 300-303

Skenderi, Erjon ; Olshannikova, Ekaterina ; Olsson, Thomas ; Huhtamäki, Jukka ; Koivunen, Sami ; Yao, Peng ; Huttunen, Heikki. / **Investigation of egocentric social structures for diversity-enhancing followee recommendations**. ACM UMAP 2019 Adjunct - Adjunct Publication of the 27th Conference on User Modeling, Adaptation and Personalization. ACM, 2019. pp. 257-261

Mitchell, Robb ; Olsson, Thomas. / **Facilitating the first move : Exploring inspirational design patterns for aiding initiation of social encounters**. C&T 2019 - 9th International Conference on Communities and Technologies, Conference Proceedings. editor / Hilda Tellioglu ; Florian Cech. ACM, 2019. pp. 283-294

Vadivel, Kanishkan ; Jordans, Roel ; Stuijk, Sander ; Corporaal, Henk ; Jääskeläinen, Pekka ; Kultala, Heikki. / **Towards Efficient Code Generation for Exposed Datapath Architectures**. Proceedings of the 22nd International Workshop on Software and Compilers for Embedded Systems, SCOPES 2019. editor / Sander Stuijk. ACM, 2019. pp. 86-89

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

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

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

Passalis, Nikolaos ; Tefas, Anastasios ; Kannianen, Juho ; Gabbouj, Moncef ; Iosifidis, Alexandros. / **Deep Temporal Logistic Bag-of-features for Forecasting High Frequency Limit Order Book Time Series**. 2019 IEEE International Conference on Acoustics, Speech, and Signal Processing, ICASSP 2019 - Proceedings. IEEE, 2019. pp. 7545-7549

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

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

Pertilä, Pasi ; Parviainen, Mikko. / **Time Difference of Arrival Estimation of Speech Signals Using Deep Neural Networks with Integrated Time-frequency Masking**. 2019 IEEE International Conference on Acoustics, Speech, and Signal Processing, ICASSP 2019 - Proceedings. IEEE, 2019. pp. 436-440

Passalis, Nikolaos ; Mourgias-Alexandris, George ; Tsakyridis, Apostolos ; Pleros, Nikos ; Tefas, Anastasios. / **Variance Preserving Initialization for Training Deep Neuromorphic Photonic Networks with Sinusoidal Activations**. 2019 IEEE International Conference on Acoustics, Speech, and Signal Processing, ICASSP 2019 - Proceedings. IEEE, 2019. pp. 1483-1487

Al-Ars, Zaid ; Basten, Twan ; Beer, Adde ; Geilen, Marc ; Goswami, Dip ; Jääskeläinen, Pekka ; Kadlec, Jiří ; Alejandro, Marcos Martinezde ; Palumbo, Francesca ; Peeren, Geran ; Pomante, Luigi ; Linden, Frank Vander ; Saarinen, Juka ; Sääntti, Tero ; Sau, Carlo ; Zedda, Maria Katuscia. / **The FitOptVis ECSEL Project : Highly Efficient Distributed Embedded Image/Video Processing in Cyber-Physical Systems Invited Paper**. ACM International Conference on Computing Frontiers 2019, CF 2019 - Proceedings. ACM, 2019. pp. 333-338

Heimbirger, Anneli ; Isomottonen, Ville ; Nieminen, Paavo ; Keto, Harri. / **How do academics experience use of recorded audio feedback in higher education? A thematic analysis**. Frontiers in Education: Fostering Innovation Through Diversity, FIE 2018 - Conference Proceedings. IEEE, 2019. (Proceedings - Frontiers in Education Conference).

Ometov, Aleksandr ; Petrov, Vitaly ; Bezzateev, Sergey ; Andreev, Sergey ; Koucheryavy, Yevgeni ; Gerla, Mario. / **Challenges of Multi-Factor Authentication for Securing Advanced IoT Applications**. In: IEEE Network. 2019 ; Vol. 33, No. 2. pp. 82-88.

San Juan Sebastián, Pablo ; Virtanen, Tuomas ; Garcia-Molla, Victor M. ; Vidal, Antonio M. / **Analysis of an efficient parallel implementation of active-set Newton algorithm**. In: Journal of Supercomputing. 2019 ; Vol. 75, No. 3. pp. 1298-1309.

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

Sievi-Korte, Outi ; Beecham, Sarah ; Richardson, Ita. / **Challenges and recommended practices for software architecting in global software development**. In: Information and Software Technology. 2019 ; Vol. 106. pp. 234-253.

Ponomarenko, Mykola ; Miroshnichenko, Oleksandr ; Lukin, Vladimir ; Egiazarian, Karen. / **Additional lossless compression of JPEG images based on BPG**. Image Processing: Algorithms and Systems XVII. 2019. (IS and T International Symposium on Electronic Imaging Science and Technology).

Ieremeiev, Oleg ; Lukin, Vladimir ; Ponomarenko, Nikolay ; Egiazarian, Karen. / **Combined no-reference IQA metric and its performance analysis**. Image Processing: Algorithms and Systems XVII. 2019. (IS and T International Symposium on Electronic Imaging Science and Technology).

Ponomarenko, Mykola ; Katkovnik, Vladimir ; Egiazarian, Karen. / **Phase masks optimization for broadband diffractive imaging**. Image Processing: Algorithms and Systems XVII. 2019. (IS and T International Symposium on Electronic Imaging Science and Technology).

Akpınar, Ugur ; Sahin, Erdem ; Suominen, Olli ; Gotchev, Atanas. / **Thin form-factor super multiview head-up display system**. Stereoscopic Displays and Applications XXX . 2019. (IS&T International Symposium on Electronic Imaging).

Begishev, V. O. ; Sopin, E. S. ; Molchanov, D. A. ; Samouylov, A. K. ; Gaidamaka, Yu V. ; Samouylov, K. E. / **Performance evaluation of bandwidth reservation for mmWave 5G NR systems**. In: Informatsionno-Upravliaiushchie Sistemy. 2019 ; No. 5. pp. 51-63.

Dehmer, Matthias ; Chen, Zengqiang ; Emmert-Streib, Frank ; Mowshowitz, Abbe ; Shi, Yongtang ; Tripathi, Shailesh ; Zhang, Yusen. / **Towards detecting structural branching and cyclicity in graphs : A polynomial-based approach**. In: Information Sciences. 2019 ; Vol. 471. pp. 19-28.

Hellsten, Pasi ; Myllärniemi, Jussi. / **Business intelligence process model revisited**. IC3K 2019 - Proceedings of the 11th International Joint Conference on Knowledge Discovery, Knowledge Engineering and Knowledge Management. editor / Jorge Bernardino ; Ana Salgado ; Joaquim Filipe. SCITEPRESS, 2019. pp. 341-348 (IC3K 2019 - Proceedings of the 11th International Joint Conference on Knowledge Discovery, Knowledge Engineering and Knowledge Management).

Myllärniemi, Jussi ; Helander, Nina ; Pekkola, Samuli. / **Challenges in developing data-based value creation**. IC3K 2019 - Proceedings of the 11th International Joint Conference on Knowledge Discovery, Knowledge Engineering and Knowledge Management. editor / Jorge Bernardino ; Ana Salgado ; Joaquim Filipe. SCITEPRESS, 2019. pp. 370-376 (IC3K 2019 - Proceedings of the 11th International Joint Conference on Knowledge Discovery, Knowledge Engineering and Knowledge Management).

Jussila, Jari ; Kukkamäki, Joni ; Helander, Nina. / **Co-creating digital services for citizens : Activity theory analysis**. IC3K 2019 - Proceedings of the 11th International Joint Conference on Knowledge Discovery, Knowledge Engineering and Knowledge Management. editor / Jorge Bernardino ; Ana Salgado ; Joaquim Filipe. SCITEPRESS, 2019. pp. 285-290 (IC3K 2019 - Proceedings of the 11th International Joint Conference on Knowledge Discovery, Knowledge Engineering and Knowledge Management).

Pajarinen, Joni ; Thai, Hong Linh ; Akrou, Riad ; Peters, Jan ; Neumann, Gerhard. / **Compatible natural gradient policy search**. In: Machine Learning. 2019.

Orelma, H. / **Continuum approach to high-cycle fatigue. The finite life-time case with stochastic stress history**. In: Vestnik Samarskogo Gosudarstvennogo Tekhnicheskogo Universiteta, Seriya Fiziko-Matematicheskie Nauki. 2019 ; Vol. 23, No. 3. pp. 452-463.

Sharifzadeh, Sara ; Tata, Jagati ; Tan, Bo. / **Farm detection based on deep convolutional neural nets and semi-supervised green texture detection using VIS-NIR satellite image**. DATA 2019 - Proceedings of the 8th International Conference on Data Science, Technology and Applications. editor / Slimane Hammoudi ; Christoph Quix ; Jorge Bernardino. SCITEPRESS, 2019. pp. 100-108

Dang, Duong ; Pekkola, Samuli. / **Institutional Perspectives on the Process of Enterprise Architecture Adoption**. In: Information Systems Frontiers. 2019.

Luoto, Antti. / **Log analysis of 360-degree video users via MQTT**. ICGDA 2019: Proceedings of the 2019 2nd International Conference on Geoinformatics and Data Analysis . ACM, 2019. pp. 130-137

Tran, Dat Thanh ; Kiranyaz, Serkan ; Gabbouj, Moncef ; Iosifidis, Alexandros. / **PyGOP : A Python library for Generalized Operational Perceptron algorithms**. In: Knowledge-Based Systems. 2019.

Mäkinen, Simo ; Puonti, Mikko ; Lehtonen, Timo ; Mikkonen, Tommi ; Kilamo, Terhi ; Männistö, Tomi. / **Revisiting continuous deployment maturity : A two-year perspective**. Proceedings of the 34th ACM/SIGAPP Symposium on Applied Computing . ACM, 2019. pp. 1810-1817

Michalas, Antonis. / **The Lord of the shares : Combining attribute-based encryption and searchable encryption for flexible data sharing**. Proceedings of the 34th ACM/SIGAPP Symposium on Applied Computing . ACM, 2019. pp. 146-155

He, Q. ; Rezaei, A. ; Pursiainen, S. / **Zeffiro User Interface for Electromagnetic Brain Imaging : a GPU Accelerated FEM Tool for Forward and Inverse Computations in Matlab**. In: Neuroinformatics. 2019.

Badarneh, Osamah S. ; Sofotasios, Paschalis C. ; Muhaidat, Sami ; Cotton, Simon L. ; Rabie, Khaled ; Al-Dhahir, Naofal. / **On the Secrecy Capacity of Fisher-Snedecor F Fading Channels**. 2018 14th International Conference on Wireless and Mobile Computing, Networking and Communications, WiMob 2018. IEEE, 2018. pp. 102-107

Badarneh, Osamah S. ; Muhaidat, Sami ; Sofotasios, Paschalis C. ; Cotton, Simon L. ; Rabie, Khaled ; Da Costa, Daniel B. / **The N-Fisher-Snedecor F Cascaded Fading Model**. 2018 14th International Conference on Wireless and Mobile Computing, Networking and Communications, WiMob 2018. IEEE, 2018.

Nouri, Sajjad ; Rossi, Davide ; Nurmi, Jari. / **Power mitigation of a heterogeneous multicore architecture on FPGA/ASIC by DFS/DVFS techniques**. In: Microprocessors and Microsystems. 2018 ; Vol. 63. pp. 259-268.

Cakir, Emre ; Virtanen, Tuomas. / **End-to-End Polyphonic Sound Event Detection Using Convolutional Recurrent Neural Networks with Learned Time-Frequency Representation Input**. 2018 International Joint Conference on Neural Networks, IJCNN 2018 - Proceedings. IEEE, 2018.

Varsaluoma, Jari ; Väättäjä, Heli ; Heimonen, Tomi ; Tiitinen, Katariina ; Hakulinen, Jaakko ; Turunen, Markku ; Nieminen, Harri. / **Guidelines for development and evaluation of usage data analytics tools for human-machine interactions with industrial manufacturing systems**. Mindtrek 2018 - Proceedings of the 22nd International Academic Mindtrek Conference. ACM, 2018. pp. 172-181

Kelling, Chelsea ; Karhu, Jussi ; Kauhanen, Otto ; Turunen, Markku ; Väättäjä, Heli ; Lindqvist, Vesa. / **Implications of audio and narration in the user experience design of virtual reality**. Mindtrek 2018 - Proceedings of the 22nd International Academic Mindtrek Conference. ACM, 2018. pp. 258-261

Adavanne, Sharath ; Politis, Archontis ; Virtanen, Tuomas. / **Multichannel Sound Event Detection Using 3D Convolutional Neural Networks for Learning Inter-channel Features**. 2018 International Joint Conference on Neural Networks, IJCNN 2018 - Proceedings. IEEE, 2018.

Ratia, M. ; Myllärniemi, J. ; Helander, N. / **Robotic process automation - Creating value by digitalizing work in the private healthcare?**. Mindtrek 2018 - Proceedings of the 22nd International Academic Mindtrek Conference. ACM, 2018. pp. 222-227

Luoto, Antti. / **Systematic literature review on user logging in virtual reality**. Mindtrek 2018 - Proceedings of the 22nd International Academic Mindtrek Conference. ACM, 2018. pp. 110-117

Burova, Alisa ; Kelling, Chelsea ; Hakulinen, Jaakko ; Kallioniemi, Pekka ; Keskinen, Tuuli ; Turunen, Markku ; Väättäjä, Heli. / **The Finnish you – An interactive storytelling application for an airport environment**. Mindtrek 2018 - Proceedings of the 22nd International Academic Mindtrek Conference. ACM, 2018. pp. 182-191

Dehmer, Matthias ; Chen, Zengqiang ; Emmert-Streib, Frank ; Shi, Yongtang ; Tripathi, Shailesh. / **Graph measures with high discrimination power revisited : A random polynomial approach**. In: Information Sciences. 2018 ; Vol. 467. pp. 407-414.

Pelcat, Maxime ; Mercat, Alexandre ; Desnos, Karol ; Maggiani, Luca ; Liu, Yanzhou ; Heulot, Julien ; Nezan, Jean Francois ; Hamidouche, Wassim ; Menard, Daniel ; Bhattacharyya, Shuvra S. / **Reproducible Evaluation of System Efficiency with a Model of Architecture : From Theory to Practice**. In: IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems. 2018 ; Vol. 37, No. 10. pp. 2050-2063.

Obaid, Mohammad ; Kaipainen, Kirsikka ; Ocnareescu, Ioana ; Ahtinen, Aino. / **Designing for experiences with socially interactive robots**. NordiCHI 2018: Revisiting the Life Cycle - Proceedings of the 10th Nordic Conference on Human-Computer Interaction. ACM, 2018. pp. 948-951

Aspling, Fredrik ; Juhlin, Oskar ; Väättäjä, Heli. / **Understanding animals : A critical challenge in ACI**. NordiCHI 2018: Revisiting the Life Cycle - Proceedings of the 10th Nordic Conference on Human-Computer Interaction. ACM, 2018. pp. 148-160

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

Nikunen, Joonas ; Virtanen, Tuomas. / **Estimation of time-varying room impulse responses of multiple sound sources from observed mixture and isolated source signals.** 2018 IEEE International Conference on Acoustics, Speech, and Signal Processing, ICASSP 2018 - Proceedings. Vol. 2018-April Institute of Electrical and Electronics Engineers Inc., 2018. pp. 421-425 (Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing).

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

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

Viitanen, Marko ; Vanne, Jarno ; Hämäläinen, Timo D. ; Kulmala, Ari. / **Low latency edge rendering scheme for interactive 360 degree virtual reality gaming.** Proceedings - 2018 IEEE 38th International Conference on Distributed Computing Systems, ICDCS 2018. IEEE, 2018. pp. 1557-1560

Sjöblom, Max ; Hassan, Lobna ; Macey, Joseph ; Törhönen, Maria ; Hamari, Juho. / **Liking the game : How can spectating motivations influence social media usage at live esports events?.** Proceedings of the 9th International Conference on Social Media and Society, SMSociety 2018. ACM, 2018. pp. 160-167

Sabuncuoğlu, Alpay ; Erkaya, Merve ; Buruk, Oğuz Turan ; Göksun, Tilbe. / **Code notes : Designing a low-cost tangible coding tool for/with children.** IDC 2018 - Proceedings of the 2018 ACM Conference on Interaction Design and Children. ACM, 2018. pp. 644-649

Heikkinen, Antti ; Pääkkönen, Pekka ; Viitanen, Marko ; Vanne, Jarno ; Riikonen, Tommi ; Bakanoglu, Kagan. / **Fast and easy live video service setup using lightweight virtualization.** Proceedings of the 9th ACM Multimedia Systems Conference, MMSys 2018. ACM, 2018. pp. 487-489

Naik, Deepa ; Curcio, Igor D.D. ; Toukoma, Henri. / **Optimized viewport dependent streaming of stereoscopic omnidirectional video.** Proceedings of the 23th ACM Workshop on Packet Video, PV 2018. ACM, 2018. pp. 37-42

Nogueira, Idelfonso B.R. ; Ribeiro, Ana M. ; Requião, Reiner ; Pontes, Karen V. ; Koivisto, Hannu ; Rodrigues, Alírio E. ; Loureiro, José M. / **A quasi-virtual online analyser based on an artificial neural networks and offline measurements to predict purities of raffinate/extract in simulated moving bed processes.** In: Applied Soft Computing Journal. 2018 ; Vol. 67. pp. 29-47.

Ylinen, M. ; Pekkola, Samuli. / **Looking for a five-legged sheep : Identifying enterprise architects' skills and competencies.** Proceedings of the 19th Annual International Conference on Digital Government Research: Governance in the Data Age, DG.O 2018. ACM, 2018.

Tran, Hai Nam ; Bhattacharyya, Shuvra S. ; Talpin, Jean Pierre ; Gautier, Thierry. / **Toward efficient many-core scheduling of partial expansion graphs.** Proceedings of the 21st International Workshop on Software and Compilers for Embedded Systems, SCOPES 2018. Association for Computing Machinery, Inc, 2018. pp. 100-103

Suzumori, Koichi ; Hyon, Sang Ho ; Semini, Claudio ; Mattila, Jouni ; Kanda, Takefumi. / **Preface : Special Issue on 'New Hydraulic Components for Tough Robots'.** In: Advanced Robotics. 2018 ; Vol. 32, No. 9.

Taibi, Davide ; Lenarduzzi, Valentina. / **On the Definition of Microservice Bad Smells.** In: IEEE Software. 2018 ; Vol. 35, No. 3. pp. 56-62.

Heikkilä, Jussi ; Martinsuo, Miia ; Nenonen, Sanna. / **Backshoring of production in the context of a small and open Nordic economy.** In: Journal of Manufacturing Technology Management. 2018 ; Vol. 29, No. 4. pp. 658-675.

Paladi, Nicolae ; Michalas, Antonios ; Dang, Hai Van. / **Towards secure cloud orchestration for multi-cloud deployments**. CrossCloud 2018 - 5th Workshop on CrossCloud Infrastructures and Platforms, colocated with EuroSys 2018. ACM, 2018.

Van Oosterhout, Anke ; Alonso, Miguel Bruns ; Jumisko-Pyykkö, Satu. / **Ripple thermostat : Affecting the emotional experience through interactive force feedback and shape change**. Proceedings of the 2018 CHI Conference on Human Factors in Computing Systems . ACM, 2018.

Wu, Jiahao ; Blattner, Timothy ; Keyrouz, Walid ; Bhattacharyya, Shuvra S. / **A design tool for high performance image processing on multicore platforms**. Proceedings of the 2018 Design, Automation and Test in Europe Conference and Exhibition, DATE 2018. IEEE, 2018. pp. 1304-1309

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

Mohammed, Wael M. ; Ferrer, Borja Ramis ; Martinez, Jose L. ; Sanchis, Raquel ; Andres, Beatriz ; Agostinho, Carlos. / **A multi-agent approach for processing industrial enterprise data**. 2017 International Conference on Engineering, Technology and Innovation: Engineering, Technology and Innovation Management Beyond 2020: New Challenges, New Approaches, ICE/ITMC 2017 - Proceedings. IEEE, 2018. pp. 1209-1215

Katasonov, Artem ; Lastusilta, Toni ; Korvola, Timo ; Saari, Leila ; Bendas, Dan ; Mohammed, Wael M. ; Lee, Angelica Nieto. / **An approach to production scheduling optimization a case of an oil lubrication and hydraulic systems manufacturer**. 2017 International Conference on Engineering, Technology and Innovation: Engineering, Technology and Innovation Management Beyond 2020: New Challenges, New Approaches, ICE/ITMC 2017 - Proceedings. IEEE, 2018. pp. 1123-1130

Mohammed, Wael M. ; Ferrer, Borja Ramis ; Jose, L. ; Lastra, Martinez ; Aleixo, David ; Agostinho, Carlos. / **Configuring and visualizing the data resources in a cloud-based data collection framework**. 2017 International Conference on Engineering, Technology and Innovation: Engineering, Technology and Innovation Management Beyond 2020: New Challenges, New Approaches, ICE/ITMC 2017 - Proceedings. IEEE, 2018. pp. 1201-1208

Sariola, Rami. / **Exploiting suppliers' potential in construction innovations**. 2017 International Conference on Engineering, Technology and Innovation: Engineering, Technology and Innovation Management Beyond 2020: New Challenges, New Approaches, ICE/ITMC 2017 - Proceedings. IEEE, 2018. pp. 678-684

Lin, Shuoxin ; Wu, Jiahao ; Bhattacharyya, Shuvra S. / **Memory-Constrained vectorization and scheduling of dataflow graphs for hybrid CPU-GPU platforms**. In: ACM Transactions on Embedded Computing Systems. 2018 ; Vol. 17, No. 2.

Raitoharju, Jenni ; Kiranyaz, Serkan ; Gabbouj, Moncef. / **Feature synthesis for image classification and retrieval via one-against-all perceptrons**. In: Neural Computing and Applications. 2018 ; Vol. 29, No. 4. pp. 943-957.

Aytekin, Caglar ; Nikkanen, Jarno ; Gabbouj, Moncef. / **A Dataset for Camera Independent Color Constancy**. In: IEEE Transactions on Image Processing. 2018 ; Vol. 27, No. 2. pp. 530-544.

Astola, Jaakko ; Astola, Pekka ; Stanković, Radomir ; Tabus, Ioan. / **An algebraic approach to reducing the number of variables of incompletely defined discrete functions**. In: Journal of Multiple-Valued Logic and Soft Computing. 2018 ; Vol. 31, No. 3. pp. 239-253.

Taibi, Davide ; Lenarduzzi, Valentina ; Pahl, Claus. / **Architectural patterns for microservices : A systematic mapping study**. CLOSER 2018 - Proceedings of the 8th International Conference on Cloud Computing and Services Science. SCITEPRESS, 2018. pp. 221-232

Ponomarenko, Mykola ; Gapon, Nikolay ; Voronin, Viacheslav ; Egiazarian, Karen. / **Blind estimation of white Gaussian noise variance in highly textured images**. Electronic Imaging: Image Processing: Algorithms and Systems XVI. Society for Imaging Science and Technology, 2018.

Voronin, V. ; Semenishchev, E. ; Ponomarenko, M. ; Agaian, S. / **Combined local and global image enhancement algorithm**. Electronic Imaging: Image Processing: Algorithms and Systems XVI. Society for Imaging Science and Technology, 2018.

Miroshnichenko, Oleksandr ; Ponomarenko, Mykola ; Lukin, Vladimir ; Egiazarian, Karen. / **Compression of signs of DCT coefficients for additional lossless compression of JPEG images**. Electronic Imaging: Image Processing: Algorithms and Systems XVI. Society for Imaging Science and Technology, 2018.

Sahin, Erdem ; Vagharshakyan, Suren ; Bregovic, Robert ; Lee, Gwangsoon ; Gotchev, Atanas. / **Conversion of sparsely-captured light field into alias-free fullparallax multiview content**. Electronic Imaging: Stereoscopic Displays and Applications XXIX. Society for Imaging Science and Technology, 2018. pp. 1441-1445

Battisti, F. ; Carli, M. ; De Paola, E. ; Egiazarian, K. / **Deep p-Fibonacci scattering networks**. Electronic Imaging: Image Processing: Algorithms and Systems XVI. Society for Imaging Science and Technology, 2018.

Valmari, Antti ; Vogler, Walter. / **Fair testing and stubborn sets**. In: International Journal on Software Tools for Technology Transfer. 2018 ; pp. 589-610.

Farris, I. ; Orsino, A. ; Militano, L. ; Iera, A. ; Araniti, G. / **Federated IoT services leveraging 5G technologies at the edge**. In: Ad Hoc Networks. 2018 ; Vol. 68. pp. 58-69.

Morschheuser, Benedikt ; Hassan, Lobna ; Werder, Karl ; Hamari, Juho. / **How to design gamification? A method for engineering gamified software**. In: Information and Software Technology. 2018 ; Vol. 95. pp. 219-237.

Kannisto, Petri ; Hästbacka, David ; Martinen, Arto. / **Information Exchange Architecture for Collaborative Industrial Ecosystem**. In: Information Systems Frontiers. 2018 ; pp. 1-16.

Hästbacka, David ; Kannisto, Petri ; Vilkkö, Matti. / **Information models and information exchange in plant-wide monitoring and control of industrial processes**. Proceedings of the 10th International Joint Conference on Knowledge Discovery, Knowledge Engineering and Knowledge Management - Volume 3: KMIS: September 18-20, 2018, Seville, Spain. SCITEPRESS, 2018. pp. 216-222

Rubel, Oleksii ; Lukin, Vladimir ; Abramov, Sergey ; Vozel, Benoit ; Pogrebnyak, Oleksiy ; Egiazarian, Karen. / **Is Texture Denoising Efficiency Predictable?**. In: International Journal of Pattern Recognition and Artificial Intelligence. 2018 ; Vol. 32, No. 1.

Rosati, Pierangelo ; Fowley, Frank ; Pahl, Claus ; Taibi, Davide ; Lynn, Theo. / **Making the cloud work for software producers : Linking architecture, operating cost and revenue**. CLOSER 2018 - Proceedings of the 8th International Conference on Cloud Computing and Services Science. SCITEPRESS, 2018. pp. 364-375

Aldaya, Alejandro Cabrera ; Brumley, Billy Bob ; Sarmiento, Alejandro J.Cabrera ; Sánchez-Solano, Santiago. / **Memory Tampering Attack on Binary GCD Based Inversion Algorithms**. In: International Journal of Parallel Programming. 2018 ; pp. 1-20.

Ponomarenko, Mykola ; Katkovnik, Vladimir ; Egiazarian, Karen. / **Methods and tools for denoising of complex-valued images based on block-matching and high order singular value decomposition**. Electronic Imaging: Image Processing: Algorithms and Systems XVI. Society for Imaging Science and Technology, 2018.

van Mellaert, R. ; Mela, K. ; Tiainen, T. ; Heinisuo, M. ; Lombaert, G. ; Schevenels, M. / **Mixed-integer linear programming approach for global discrete sizing optimization of frame structures**. In: Structural and Multidisciplinary Optimization. 2018 ; Vol. 57, No. 2. pp. 579-593.

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

Boashash, Boualem ; Aïssa-El-Bey, Abdeldjalil ; Al-Sa'd, Mohammad F. / **Multisensor Time-Frequency Signal Processing MATLAB package : An analysis tool for multichannel non-stationary data**. In: SoftwareX. 2018 ; Vol. 8. pp. 53-58.

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

Dehmer, Matthias ; Chen, Zengqiang ; Mowshowitz, Abbe ; Jodlbauer, Herbert ; Emmert-Streib, Frank ; Shi, Yongtang ; Tripathi, Shailesh ; Xia, Chengyi. / **On the degeneracy of the Randić entropy and related graph measures**. In: Information Sciences. 2018.

Aytekin, Caglar ; Iosifidis, Alexandros ; Gabbouj, Moncef. / **Probabilistic saliency estimation**. In: Pattern Recognition. 2018 ; Vol. 74. pp. 359-372.

Astola, Helena ; Stanković, Radomir ; Astola, Jaakko. / **Reduction of variables of index generation functions using linear and quadratic transformations**. In: Journal of Multiple-Valued Logic and Soft Computing. 2018 ; Vol. 31, No. 3. pp. 255-270.

Ieremeiev, Oleg ; Lukin, Vladimir ; Ponomarenko, Nikolay ; Egiazarian, Karen. / **Robust linearized combined metrics of image visual quality**. Electronic Imaging: Image Processing: Algorithms and Systems XVI. Society for Imaging Science and Technology, 2018.

Georgiev, Mihail ; Bregovic, Robert ; Gotchev, Atanas. / **Time-of-Flight Range Measurement in Low-sensing Environment : Noise Analysis and Complex-domain Non-local Denoising**. In: IEEE Transactions on Image Processing. 2018 ; Vol. 27, No. 6.

Taibi, Davide ; Janes, Andrea ; Lenarduzzi, Valentina. / **How developers perceive smells in source code : A replicated study**. In: Information and Software Technology. 2017 ; Vol. 92. pp. 223-235.

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

Dehmer, Matthias ; Emmert-Streib, Frank ; Shi, Yongtang. / **Quantitative Graph Theory : A new branch of graph theory and network science**. In: Information Sciences. 2017 ; Vol. 418-419. pp. 575-580.

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

Bezzateev, Sergey ; Afanasyeva, Aleksandra ; Voloshina, Natalia ; Ometov, Aleksandr. / **Multi-factor authentication for wearables : Configuring system parameters with risk function**. Proceedings of the 2nd International Conference on Advanced Wireless Information, Data, and Communication Technologies, AWICT 2017. ACM, 2017.

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

Morschheuser, Benedikt ; Hamari, Juho ; Koivisto, Jonna ; Maedche, Alexander. / **Gamified crowdsourcing : Conceptualization, literature review, and future agenda**. In: International Journal of Human-Computer Studies. 2017 ; Vol. 106. pp. 26-43.

Dehmer, Matthias ; Emmert-Streib, Frank ; Hu, Bo ; Shi, Yongtang ; Stefu, Monica ; Tripathi, Shailesh. / **Highly unique network descriptors based on the roots of the permanent polynomial**. In: Information Sciences. 2017 ; Vol. 408. pp. 176-181.

Leppänen, Leo ; Leinonen, Juho ; Ihanola, Petri ; Hellas, Arto. / **Predicting academic success based on learning material usage**. SIGITE 2017 - Proceedings of the 18th Annual Conference on Information Technology Education. ACM, 2017. pp. 13-18

Gallidabino, Andrea ; Pautasso, Cesare ; Mikkonen, Tommi ; Systä, Kari ; Voutilainen, Jari-Pekka ; Taivalsaari, Antero. / **Architecting liquid software**. In: Journal of Web Engineering. 2017 ; Vol. 16, No. 5-6. pp. 433-470.

Leinonen, Juho ; Leppänen, Leo ; Ihanola, Petri ; Hellas, Arto. / **Comparison of time metrics in programming**. ICER 2017 - Proceedings of the 2017 ACM Conference on International Computing Education Research. ACM, 2017. pp. 200-208

Fanni, Tiziana ; Li, Lin ; Viitanen, Timo ; Sau, Carlo ; Xie, Renjie ; Palumbo, Francesca ; Raffo, Luigi ; Huttunen, Heikki ; Takala, Jarmo ; Bhattacharyya, Shuvra S. / **Hardware design methodology using lightweight dataflow and its integration with low power techniques**. In: Journal of Systems Architecture. 2017 ; Vol. 78. pp. 15-29.

Lauri, Mikko ; Heinänen, Eero ; Frintrop, Simone. / **Multi-robot active information gathering with periodic communication**. ICRA 2017 - IEEE International Conference on Robotics and Automation. IEEE, 2017. pp. 851-856

Hietanen, Antti ; Halme, Jussi ; Buch, Anders Glent ; Latokartano, Jyrki ; Kamarainen, J.-K. / **Robustifying correspondence based 6D object pose estimation**. ICRA 2017 - IEEE International Conference on Robotics and Automation. IEEE, 2017. pp. 739-745

Valenti, Michele ; Squartini, Stefano ; Diment, Aleksandr ; Parascandolo, Giambattista ; Virtanen, Tuomas. / **A convolutional neural network approach for acoustic scene classification**. 2017 International Joint Conference on Neural Networks, IJCNN 2017. IEEE, 2017. pp. 1547-1554

Lenarduzzi, Valentina ; Sillitti, Alberto ; Taibi, Davide. / **Analyzing Forty years of software maintenance models**. Proceedings - 2017 IEEE/ACM 39th International Conference on Software Engineering Companion, ICSE-C 2017. Institute of Electrical and Electronics Engineers Inc., 2017.

Iosifidis, Alexandros ; Gabbouj, Moncef. / **Class-specific kernel discriminant analysis based on Cholesky decomposition**. 2017 International Joint Conference on Neural Networks, IJCNN 2017. IEEE, 2017. pp. 1141-1146

Laukkarinen, Teemu ; Kuusinen, Kati ; Mikkonen, Tommi. / **DevOps in regulated software development : Case medical devices**. Proceedings - 2017 IEEE/ACM 39th International Conference on Software Engineering: New Ideas and Emerging Results Track, ICSE-NIER 2017. IEEE, 2017. pp. 15-18

Kiranyaz, Serkan ; Ince, Turker ; Iosifidis, Alexandros ; Gabbouj, Moncef. / **Generalized model of biological neural networks : Progressive operational perceptrons**. 2017 International Joint Conference on Neural Networks, IJCNN 2017. IEEE, 2017. pp. 2477-2485

Järvinen, Janne ; Huomo, Tua ; Mikkonen, Tommi. / **Running software research programs : An agile approach**. Proceedings - 2017 IEEE/ACM 39th International Conference on Software Engineering Companion, ICSE-C 2017. IEEE, 2017. pp. 314-316

Leppänen, Leo ; Leinonen, Juho ; Ihanola, Petri ; Hellas, Arto. / **Using and collecting fine-grained usage data to improve online learning materials**. Proceedings - 2017 IEEE/ACM 39th International Conference on Software Engineering: Software Engineering and Education Track, ICSE-SEET 2017. IEEE, 2017. pp. 4-12

Multisilta, Jari ; Niemi, Hannele ; Hamilton, Eric. / **Children designing videos : Tools, pedagogical models, and best practices for digital storytelling and media-making in the classroom.** IDC 2017 - Proceedings of the 2017 ACM Conference on Interaction Design and Children. ACM, 2017. pp. 693-696

Mitchell, Robb ; Olsson, Thomas. / **Barriers for bridging interpersonal gaps : Three inspirational design patterns for increasing collocated social interaction.** C&T 2017 - 8th International Conference on Communities and Technologies, Conference Proceedings. ACM, 2017. pp. 2-10

Zhang, Honglei ; Kiranyaz, Serkan ; Gabbouj, Moncef. / **A k-nearest neighbor multilabel ranking algorithm with application to content-based image retrieval.** 2017 IEEE International Conference on Acoustics, Speech, and Signal Processing, ICASSP 2017 - Proceedings. IEEE, 2017. pp. 2587-2591

Lee, Kyunghun ; Riggan, Benjamin S. ; Bhattacharyya, Shuvra S. / **An accumulative fusion architecture for discriminating people and vehicles using acoustic and seismic signals.** 2017 IEEE International Conference on Acoustics, Speech, and Signal Processing, ICASSP 2017 - Proceedings. IEEE, 2017. pp. 2976-2980

Korpi, Dani ; Riihonen, Taneli ; Valkama, Mikko. / **Inband full-duplex radio access system with self-backhauling : Transmit power minimization under QoS requirements.** 2017 IEEE International Conference on Acoustics, Speech, and Signal Processing, ICASSP 2017 - Proceedings. IEEE, 2017. pp. 6558-6562

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

Taibi, Davide ; Lenarduzzi, Valentina ; Ahmad, Muhammad Ovais ; Liukkunen, Kari. / **Comparing communication effort within the scrum, scrum with Kanban, XP, and Banana development processes.** Proceedings of the 21st International Conference on Evaluation and Assessment in Software Engineering, EASE 2017. Vol. Part F128635 Association for Computing Machinery, 2017. pp. 258-263

Taibi, D. ; Lenarduzzi, V. ; Diebold, P. ; Lunesu, I. / **Operationalizing the experience factory for effort estimation in agile processes.** Proceedings of the 21st International Conference on Evaluation and Assessment in Software Engineering, EASE 2017. Vol. Part F128635 Association for Computing Machinery, 2017. pp. 31-40

Taibi, Davide ; Lenarduzzi, Valentina ; Pahl, Claus ; Janes, Andrea. / **Microservices in agile software development : A workshop-based study into issues, advantages, and disadvantages.** Proceedings of the XP2017 Scientific Workshops, XP 2017. Vol. Part F129907 Association for Computing Machinery, 2017.

Taivalsaari, Antero ; Mikkonen, Tommi ; Pautasso, Cesare ; Systä, Kari. / **Comparing the Built-In Application Architecture Models in the Web Browser.** 2017 IEEE International Conference on Software Architecture (ICSA). IEEE, 2017. pp. 51-54

Bahrudeen, Mohamed N.M. ; Startceva, Sofia ; Ribeiro, Andre S. / **Effects of extrinsic noise are promoter kinetics dependent.** Proceedings of the 2017 9th International Conference on Bioinformatics and Biomedical Technology, ICBBT 2017. ACM, 2017. pp. 44-47

Leinonen, Juho ; Ihanntola, Petri ; Hellas, Arto. / **Preventing keystroke based identification in open data sets.** L@S 2017 - Proceedings of the 4th (2017) ACM Conference on Learning at Scale. ACM, 2017. pp. 101-109

Virtanen, Antti ; Kuusinen, Kati ; Leppänen, Marko ; Luoto, Antti ; Kilamo, Terhi ; Mikkonen, Tommi. / **On continuous deployment maturity in customer projects.** 32nd Annual ACM Symposium on Applied Computing, SAC 2017. ACM, 2017. pp. 1205-1212

Salo, Kari ; Bauters, Merja ; Mikkonen, Tommi. / **User generated soundscapes activating museum visitors.** 32nd Annual ACM Symposium on Applied Computing, SAC 2017. ACM, 2017. pp. 220-227

Vorwerk, J. ; Engwer, C. ; Pursiainen, S. ; Wolters, C. H. / **A Mixed Finite Element Method to Solve the EEG Forward Problem**. In: IEEE Transactions on Medical Imaging. 2017 ; Vol. 36, No. 4. pp. 930-941.

Salo, Kari ; Zinin, Vallo ; Bauters, Merja ; Mikkonen, Tommi. / **Modular audio story platform for museums**. IUI 2017 - Companion of the 22nd International Conference on Intelligent User Interfaces. ACM, 2017. pp. 113-116

Suonsyrjä, Sampo ; Hokkanen, Laura ; Terho, Henri ; Systä, Kari ; Mikkonen, Tommi. / **Post-deployment data : A recipe for satisfying knowledge needs in software development?**. 2016 Joint Conference of the International Workshop on Software Measurement and the International Conference on Software Process and Product Measurement (IWSM-MENSURA). IEEE, 2017. pp. 139-147

Valmari, Antti. / **Stop it, and be stubborn!**. In: ACM Transactions on Embedded Computing Systems. 2017 ; Vol. 16, No. 2.

Egiazarian, Karen ; Danielyan, Aram ; Ponomarenko, Nikolay ; Foia, Alessandro ; Ieremeiev, Oleg ; Lukin, Vladimir. / **BM3D-HVS : Content-Adaptive denoising for improved visual quality**. Image Processing: Algorithms and Systems XV. 2017. pp. 48-55 (Electronic Imaging).

Komar, M. S. / **Data Rate Assessment on L2-L3 CPU Bus and Bus between CPU and RAM in Modern CPUs**. In: Automatic Control and Computer Sciences. 2017 ; Vol. 51, No. 7. pp. 701-708.

Kiili, Kristian. / **From theories to game mechanics : Developing a game for training rational numbers**. Proceedings of the 11th European Conference on Games Based Learning, ECGBL 2017. Academic Conferences and Publishing International Limited, 2017. pp. 328-334

Ieremeiev, Oleg ; Lukin, Vladimir ; Ponomarenko, Nikolay ; Egiazarian, Karen. / **Full-reference metrics multidistortional analysis**. Image Processing: Algorithms and Systems XV. 2017. pp. 27-35 (Electronic Imaging).

Borges, Lucas R. ; Guerrero, Igor ; Bakic, Predrag R. ; Foi, Alessandro ; Maidment, Andrew D.A. ; Vieira, Marcelo A.C. / **Method for Simulating Dose Reduction in Digital Breast Tomosynthesis**. In: IEEE Transactions on Medical Imaging. 2017 ; Vol. 36, No. 11. pp. 2331-2342.

Babahajiani, Pouria ; Fan, Lixin ; Kämäräinen, Joni-Kristian ; Gabbouj, Moncef. / **Urban 3D segmentation and modelling from street view images and LiDAR point clouds**. In: Machine Vision and Applications. 2017 ; Vol. 28, No. 7. pp. 679-694.

Mäkinen, Simo ; Leppänen, Marko ; Kilamo, Terhi ; Mattila, Anna-Liisa ; Laukkanen, Eero ; Pagels, Max ; Männistö, Tomi. / **Improving the delivery cycle : A multiple-case study of the toolchains in Finnish software intensive enterprises**. In: Information and Software Technology. 2016 ; Vol. 80. pp. 1339-1351.

Rakkolainen, Ismo ; Raisamo, Roope ; Turk, Matthew ; Höllerer, Tobias ; Palovuori, Karri. / **Casual immersive viewing with smartphones**. AcademicMindtrek 2016 - Proceedings of the 20th International Academic Mindtrek Conference. ACM, 2016. pp. 449-452

Hokkanen, Laura ; Xu, Yueqiang ; Väänänen, Kaisa. / **Focusing on user experience and business models in startups : Investigation of two-dimensional value creation**. AcademicMindtrek 2016 - Proceedings of the 20th International Academic Mindtrek Conference. ACM, 2016. pp. 59-67

Hildén, Elina ; Väättäjä, Heli ; Roto, Virpi ; Uusitalo, Kero. / **Participatory development of user experience design guidelines for a B2B company**. AcademicMindtrek '16 Proceedings of the 20th International Academic Mindtrek Conference . ACM, 2016. pp. 49-58

Mattila, Anna-Liisa ; Ihantola, Petri ; Kilamo, Terhi ; Luoto, Antti ; Nurminen, Mikko ; Väättäjä, Heli. / **Software visualization today - Systematic literature review**. AcademicMindtrek 2016 - Proceedings of the 20th International Academic Mindtrek Conference. ACM, 2016. pp. 262-271

Jumisko-Pyykkö, Satu ; Pesonen, Emilia ; Väätäjä, Heli. / **Temporal dimensions of affect in user experience of digital news in the field.** AcademicMindtrek 2016 - Proceedings of the 20th International Academic Mindtrek Conference. ACM, 2016. pp. 192-197

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

Lenarduzzi, Valentina ; Taibi, Davide. / **MVP Explained : A Systematic Mapping Study on the Definitions of Minimal Viable Product.** Proceedings - 42nd Euromicro Conference on Software Engineering and Advanced Applications, SEAA 2016. IEEE, 2016. pp. 112-119

Jokela, Tero ; Rezaei, Parisa Pour ; Väänänen, Kaisa. / **Using elicitation studies to generate collocated interaction methods.** Proceedings of the 18th International Conference on Human-Computer Interaction with Mobile Devices and Services Adjunct, MobileHCI 2016. ACM, 2016. pp. 1129-1133

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

Ruohonen, Jukka ; Hyrynsalmi, Sami ; Leppänen, Ville. / **Trading exploits online : A preliminary case study.** IEEE RCIS 2016 - IEEE 10th International Conference on Research Challenges in Information Science. IEEE COMPUTER SOCIETY PRESS, 2016.

Akyildiz, Ian F. ; Wang, Pu ; Lin, Shih Chun. / **SoftWater : Software-defined networking for next-generation underwater communication systems.** In: Ad Hoc Networks. 2016 ; Vol. 46.

Gallidabino, Andrea ; Pautasso, Cesare ; Ilvonen, Ville ; Mikkonen, Tommi ; Systä, Kari ; Voutilainen, Jari-Pekka ; Taivalsaari, Antero. / **On the Architecture of Liquid Software: Technology Alternatives and Design Space.** Proceedings - 2016 13th Working IEEE/IFIP Conference on Software Architecture, WICSA 2016. IEEE, 2016. pp. 122-127

Eslahi, Nasser ; Aghagolzadeh, Ali. / **Compressive Sensing Image Restoration Using Adaptive Curvelet Thresholding and Nonlocal Sparse Regularization.** In: IEEE Transactions on Image Processing. 2016 ; Vol. 25, No. 7. pp. 3126-3140.

Ahti, Ville ; Hyrynsalmi, Sami ; Nevalainen, Olli. / **An evaluation framework for cross-platform mobile app development tools : A case analysis of adobe PhoneGap framework.** Computer Systems and Technologies 17th International Conference, CompSysTech 2016 - Proceedings. Vol. 1164 Association for Computing Machinery, 2016. pp. 41-48

Hosseinzadeh, Shohreh ; Rauti, Sampsa ; Laurén, Samuel ; Mäkelä, Jari Matti ; Holvitie, Johannes ; Hyrynsalmi, Sami ; Leppänen, Ville. / **A survey on aims and environments of diversification and obfuscation in software security.** Computer Systems and Technologies 17th International Conference, CompSysTech 2016 - Proceedings. Vol. 1164 Association for Computing Machinery, 2016. pp. 113-120

Venesvirta, Hanna ; Surakka, Veikko ; Gizatdinova, Yulia ; Lylykangas, Jani ; Špakov, Oleg ; Verho, Jarmo ; Vetek, Akos ; Lekkala, Jukka. / **Emotional Reactions to Point-Light Display Animations.** In: Interacting with Computers. 2016 ; Vol. 28, No. 4. pp. 521-531.

Ruohonen, Jukka ; Hyrynsalmi, Sami ; Leppänen, Ville. / **Exploring the use of deprecated PHP releases in the wild internet : Still a LAMP issue?** 6th International Conference on Web Intelligence, Mining and Semantics, WIMS 2016. Association for Computing Machinery, 2016.

Emmert-Streib, Frank ; Dehmer, Matthias ; Shi, Yongtang. / **Fifty years of graph matching, network alignment and network comparison.** In: Information Sciences. 2016 ; Vol. 346-347. pp. 180-197.

Thabet, Mohammad ; Montebelli, Alberto ; Kyrki, Ville. / **Learning movement synchronization in multi-component robotic systems**. 2016 IEEE International Conference on Robotics and Automation (ICRA) . IEEE, 2016. pp. 249-256

Välimäki, Tuomas ; Ritala, Risto. / **Optimizing gaze direction in a visual navigation task**. 2016 IEEE International Conference on Robotics and Automation (ICRA) . IEEE, 2016. pp. 1427-1432

Lin, Shuoxin ; Liu, Yanzhou ; Plishker, William ; Bhattacharyya, Shuvra S. / **A design framework for mapping vectorized synchronous dataflow graphs onto CPU-GPU platforms**. Proceedings of the 19th International Workshop on Software and Compilers for Embedded Systems, SCOPES 2016. ACM, 2016. pp. 20-29

Ilvonen, Ville ; Ihantola, Petri ; Mikkonen, Tommi. / **Dynamic software updating techniques in practice and Educator's guides : A review**. 2016 IEEE 29th International Conference on Software Engineering Education and Training (CSEET) . IEEE, 2016. pp. 86-90

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

Sarbu, Septimia. / **On Renyi's entropy estimation with one-dimensional Gaussian kernels**. 2016 IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP) . IEEE, 2016. pp. 4408-4412

Iosifidis, Alexandros ; Gabbouj, Moncef. / **Supervised subspace learning based on deep randomized networks**. 2016 IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP) . The Institute of Electrical and Electronics Engineers, Inc., 2016. pp. 2584-2588

Lee, Kyunghun ; Salem, Haifa Ben ; Damarla, Thyagaraju ; Stechele, Walter ; Bhattacharyya, Shuvra S. / **Prototyping real-time tracking systems on mobile devices**. CF '16 Proceedings of the ACM International Conference on Computing Frontiers. ACM, 2016. pp. 301-308

Smolander, Kari ; Rossi, Matti ; Pekkola, Samuli. / **Collaboration change in enterprise software development**. Proceedings - 9th International Workshop on Cooperative and Human Aspects of Software Engineering, CHASE 2016. ACM, 2016. pp. 68-74

Mäkitalo, Niko ; Aaltonen, Timo ; Mikkonen, Tommi. / **Coordinating proactive social devices in a mobile cloud : Lessons learned and a way forward**. MOBILESoft '16 Proceedings of the International Conference on Mobile Software Engineering and Systems . ACM, 2016. pp. 179-188

Partala, Timo ; Kujala, Sari. / **Exploring the role of ten universal values in using products and services**. In: Interacting with Computers. 2016 ; Vol. 28, No. 3. pp. 311-331.

Helenius, Marko ; Kettunen, Petri ; Frank, Lauri. / **Learnings from the Finnish game industry**. Proceedings of the 10th Travelling Conference on Pattern Languages of Programs, VikingPLoP 2016. ACM, 2016.

Rauhamaäki, Jari. / **Patterns for safety system bus architecture**. Proceedings of the 10th Travelling Conference on Pattern Languages of Programs, VikingPLoP 2016. ACM, 2016.

Leppänen, Marko ; Hokkanen, Laura. / **Patterns for subsidiaries as innovation tools**. Proceedings of the 10th Travelling Conference on Pattern Languages of Programs, VikingPLoP 2016. ACM, 2016.

Mehta, Rakesh ; Egiazarian, Karen. / **Texture classification using dense micro-block difference**. In: IEEE Transactions on Image Processing. 2016 ; Vol. 25, No. 4. pp. 1604-1616.

Strokina, Nataliya ; Matas, Jiri ; Eerola, Tuomas ; Lensu, Lasse ; Kälviäinen, Heikki. / **Detection of bubbles as concentric circular arrangements**. In: Machine Vision and Applications. 2016 ; Vol. 27, No. 3. pp. 387-396.

Garcia-Fernandez, Jorge. / **An Assessment of Errors and Their Reduction in Terrestrial Laser Scanner Measurements in Marmorean Surfaces**. In: 3D Research. 2016 ; Vol. 7, No. 1. pp. 1-11.

Jarusriboonchai, Pradthana ; Malapaschas, Aris ; Olsson, Thomas ; Väänänen, Kaisa. / **Increasing collocated people's awareness of the mobile user's activities : A field trial of social displays**. CSCW '16 - Proceedings of the 19th ACM Conference on Computer-Supported Cooperative Work & Social Computing . ACM, 2016. pp. 1691-1702

Jarusriboonchai, Pradthana ; Malapaschas, Aris ; Olsson, Thomas ; Väänänen, Kaisa. / **Social display...We can see what you are doing on your mobile device**. CSCW '16 Proceedings of the 19th ACM Conference on Computer-Supported Cooperative Work & Social Computing. ACM, 2016. pp. 53-56

Tokola, Henri ; Niemi, Esko ; Väistö, Ville. / **Lean manufacturing methods in simulation literature : Review and association analysis**. 2015 Winter Simulation Conference (WSC). 2016. pp. 2239-2248

Hyrnsalmi, Sami ; Suominen, Arho ; Mäntymäki, Matti. / **The influence of developer multi-homing on competition between software ecosystems**. In: Journal of Systems and Software. 2016 ; Vol. 111. pp. 119-127.

Gholibeigi, Mozhdah ; Heijenk, Geert ; Moltchanov, Dmitri ; Koucheryavy, Yevgeni. / **Analysis of a receiver-based reliable broadcast approach for vehicular networks**. In: Ad Hoc Networks. 2016 ; Vol. 37. pp. 63-75.

Suonsyrjä, Sampo ; Systä, Kari ; Mikkonen, Tommi ; Terho, Henri. / **Collecting usage data for software development : Selection framework for technological approaches**. Proceedings - SEKE 2016: 28th International Conference on Software Engineering and Knowledge Engineering. Knowledge Systems Institute Graduate School, 2016. pp. 114-119

Tohka, Jussi ; Moradi, Elaheh ; Huttunen, Heikki ; Alzheimer's Disease Neuroimaging Initiative ; Alzheimer's Disease Neuroimaging Initiative 2. / **Comparison of Feature Selection Techniques in Machine Learning for Anatomical Brain MRI in Dementia**. In: Neuroinformatics. 2016 ; Vol. 14, No. 3. pp. 279-296.

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

Foi, Alessandro ; Boracchi, Giacomo. / **Foveated Nonlocal Self-Similarity**. In: International Journal of Computer Vision. 2016 ; Vol. 120, No. 1. pp. 78-110.

Iosifidis, Alexandros ; Tefas, Anastasios ; Pitas, Ioannis. / **Graph Embedded Extreme Learning Machine**. In: IEEE Transactions on Cybernetics. 2016 ; Vol. 46, No. 1. pp. 311 - 324.

Ivanov, Stepan ; Balasubramaniam, Sasitharan ; Botvich, Dmitri ; Akan, Ozgur B. / **Gravity gradient routing for information delivery in fog Wireless Sensor Networks**. In: Ad Hoc Networks. 2016 ; Vol. 46. pp. 61-74.

Voutilainen, Jari Pekka ; Mattila, Anna Liisa ; Systä, Kari ; Mikkonen, Tommi. / **HTML5-based mobile agents for Web-of-Things**. In: Informatica. 2016 ; Vol. 40, No. 1. pp. 43-51.

Afolaranmi, Samuel Olaiya ; Gonzalez Moctezuma, Luis E. ; Rak, Massimiliano ; Casola, Valentina ; Rios, Erkuden ; Martinez Lastra, Jose L. / **Methodology to obtain the security controls in multi-cloud applications**. CLOSER 2016 - Proceedings of the 6th International Conference on Cloud Computing and Services Science. Vol. 1 SCITEPRESS, 2016. pp. 327-332

Iosifidis, Alexandros ; Mygdalis, Vasileios ; Tefas, Anastasios ; Pitas, Ioannis. / **One-Class Classification based on Extreme Learning and Geometric Class Information**. In: Neural Processing Letters. 2016 ; pp. 1-16.

Couceiro, Miguel ; Lehtonen, Erkki. / **On the arity gap of finite functions : Results and applications**. In: Journal of Multiple-Valued Logic and Soft Computing. 2016 ; Vol. 27, No. 2-3. pp. 193-207.

Unterkalmsteiner, Michael ; Abrahamsson, Pekka ; Wang, Xiao Feng ; Nguyen-Duc, Anh ; Shah, Syed ; Bajwa, Sohaib Shahid ; Baltes, Guido H. ; Conboy, Kieran ; Cullina, Eoin ; Dennehy, Denis ; Edison, Henry ; Fernandez-Sanchez, Carlos ; Garbajosa, Juan ; Gorschek, Tony ; Klotins, Eriks ; Hokkanen, Laura ; Kon, Fabio ; Lunesu, Ilaria ; Marchesi, Michele ; Morgan, Lorraine ; Oivo, Markku ; Selig, Christoph ; Seppänen, Pertti ; Sweetman, Roger ; Tyräinen, Pasi ; Ungerer, Christina ; Yagüe, Agustin. / **Software Startups - A Research Agenda**. In: e-Informatica Software Engineering Journal. 2016 ; Vol. 10, No. 1. pp. 89-123.

Zemliachenko, Alexander ; Lukin, Vladimir ; Ponomarenko, Nikolay ; Egiazarian, Karen ; Astola, Jaakko. / **Still image/video frame lossy compression providing a desired visual quality**. In: Multidimensional Systems and Signal Processing. 2016 ; Vol. 27, No. 3. pp. 697-718.

Lavazza, Luigi ; Lenarduzzi, Valentina ; Taibi, Davide. / **Towards component-aware function point measurement**. Proceedings - 26th International Workshop on Software Measurement, IWSM 2016 and the 11th International Conference on Software Process and Product Measurement, Mensura 2016. IEEE, 2016. pp. 35-44

De Matos Simoes, Ricardo ; Mitsiades, Constantine ; Williamson, Kate E. ; Emmert-Streib, Frank. / **Network signatures based on gene pair expression ratios improve classification and the analysis of muscle-invasive urothelial cancer**. 2015 IEEE International Conference on Bioinformatics and Biomedicine (BIBM). IEEE, 2015. pp. 1216-1223

Riabchenko, Ekaterina ; Kämäräinen, Joni-Kristian. / **Generative part-based Gabor object detector**. In: Pattern Recognition Letters. 2015 ; Vol. 68, No. P1. pp. 1-8.

Valmari, Antti. / **A State Space Tool for Concurrent System Models Expressed In C++**. SPLST 2015 Symposium on Programming Languages and Software Tools: Proceedings of the 14th Symposium on Programming Languages and Software Tools (SPLST'15) Tampere, Finland, Oct 9-10, 2015. editor / Jyrki Nummenmaa ; Outi Sievi-Korte ; Erkki Mäkinen. Vol. 1525 CEUR-WS.org, 2015. pp. 91-105 (CEUR Workshop Proceedings).

Ruohonen, Jukka ; Hyrynsalmi, Sami ; Leppänen, Ville. / **Time series trends in software evolution**. In: Journal of Software: Evolution and Process. 2015 ; Vol. 27, No. 12. pp. 990-1015.

Nummenmaa, Timo ; Tyni, Heikki ; Kultima, Annakaisa ; Alha, Kati ; Holopainen, Jussi. / **Need to touch, wonder of discovery, and social capital : Experiences with interactive playful seats**. ACE 2015 - 12th Advances in Computer Entertainment Technology Conference, Proceedings. Vol. 16-19-November-2015 Association for Computing Machinery, 2015.

Jumisko-Pyykkö, Satu ; Markopoulos, Panos ; Hannuksela, Miska M. / **Who is moving - User or device? Experienced quality of mobile 3D video in vehicles**. ACE 2015 - 12th Advances in Computer Entertainment Technology Conference, Proceedings. ACM, 2015.

Kallioniemi, Pekka ; Heimonen, Tomi ; Turunen, Markku ; Hakulinen, Jaakko ; Keskinen, Tuuli ; Pihkala-Posti, Laura ; Okkonen, Jussi ; Raisamo, Roope. / **Collaborative navigation in virtual worlds : How gender and game experience influence user behavior**. Proceedings - VRST 2015: 21st ACM Symposium on Virtual Reality Software and Technology. Vol. 13-15-November-2015 Association for Computing Machinery, 2015. pp. 173-182

Tretter, Andreas ; Boutellier, Jani ; Guthrie, James ; Schor, Lars ; Thiele, Lothar. / **Executing dataflow actors as Kahn processes**. 2015 Proceedings of the International Conference on Embedded Software, EMSOFT 2015. Institute of Electrical and Electronics Engineers Inc., 2015. pp. 105-114

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

Huttunen, Heikki ; Tohka, Jussi. / **Model selection for linear classifiers using Bayesian error estimation**. In: Pattern Recognition. 2015 ; Vol. 48, No. 11. pp. 3739-3748.

Luhtala, Matti ; Karvonen, Tuomo ; Pylväs, Jyrki ; Ala-Kokko, Aki ; Magica, Reina ; Takeda, Yuko ; Turunen, Markku. / **Antroposeeni - A mixed reality game**. ACADEMICMINDTREK 2015 - Proceedings of the 19th International Academic Mindtrek Conference. Association for Computing Machinery, Inc, 2015. pp. 211-213

Nummenmaa, Timo ; Kultima, Annakaisa ; Kankainen, Ville ; Savolainen, Sampo ; Syvänen, Antti ; Alha, Kati ; Mäyrä, Frans. / **OASIS deck of cards - House of colleagues : A playful**. ACADEMICMINDTREK 2015 - Proceedings of the 19th International Academic Mindtrek Conference. Association for Computing Machinery, Inc, 2015. pp. 2-9

Rantala, Jussi ; Kangas, Jari ; Isokoski, Poika ; Akkil, Deepak ; Špakov, Oleg ; Raisamo, Roope. / **Haptic feedback of gaze gestures with glasses : Localization accuracy and effectiveness**. UbiComp and ISWC 2015 - Proceedings of the 2015 ACM International Joint Conference on Pervasive and Ubiquitous Computing and the Proceedings of the 2015 ACM International Symposium on Wearable Computers. Association for Computing Machinery, Inc, 2015. pp. 855-862

Heinimäki, Teemu J. ; Elomaa, Tapio. / **Augmenting Technology Trees: Automation and Tool Support**. Proceedings of the Seventh International Conference on Virtual Worlds and Games for Serious Applications (VS-Games 2015). IEEE, 2015. pp. 68-75

Ruohonen, Jukka ; Hyrynsalmi, Sami ; Leppänen, Ville. / **Software evolution and time series volatility : An empirical exploration**. 14th International Workshop on Principles of Software Evolution, IWPSE 2015 - Proceedings. Vol. 30-Aug-2015 Institute of Electrical and Electronics Engineers Inc., 2015. pp. 56-65

Nanavati, A. A. ; Rajput, N. ; Turunen, M. ; Knoche, H. ; Rehm, M. / **Mobiscool : 1st workshop on mobile, social and culturally oriented learning**. MobileHCI 2015 - Proceedings of the 17th International Conference on Human-Computer Interaction with Mobile Devices and Services Adjunct. Association for Computing Machinery, Inc, 2015. pp. 1187-1190

Ruotsalo, Tuukka ; Peltonen, Jaakko ; Eugster, Manuel J A ; Glowacka, Dorota ; Reijonen, Aki ; Jacucci, Giulio ; Myllymäki, Petri ; Kaski, Samuel. / **Scinet : Interactive intent modeling for information discovery**. SIGIR 2015 - Proceedings of the 38th International ACM SIGIR Conference on Research and Development in Information Retrieval. Association for Computing Machinery, Inc, 2015. pp. 1043-1044

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

Iosifidis, Alexandros ; Tefas, Anastasios ; Pitas, Ioannis. / **Enhancing class discrimination in Kernel Discriminant Analysis**. ICASSP, IEEE International Conference on Acoustics, Speech and Signal Processing - Proceedings. The Institute of Electrical and Electronics Engineers, Inc., 2015. pp. 1926-1930

Baby, Deepak ; Gemmeke, Jort F. ; Virtanen, Tuomas ; Van Hamme, Hugo. / **Exemplar-based speech enhancement for deep neural network based automatic speech recognition**. ICASSP, IEEE International Conference on Acoustics, Speech and Signal Processing - Proceedings. The Institute of Electrical and Electronics Engineers, Inc., 2015. pp. 4485-4489

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

Dumitrescu, Bogdan ; Rusu, Cristian ; Tabus, Ioan ; Astola, Jaakko. / **Low-complexity robust DOA estimation**. ICASSP, IEEE International Conference on Acoustics, Speech and Signal Processing - Proceedings. The Institute of Electrical and Electronics Engineers, Inc., 2015. pp. 2794-2798

Barker, Thomas ; Virtanen, Tuomas ; Pontoppidan, Niels Henrik. / **Low-Latency Sound-Source-Separation using Non-Negative Matrix Factorisation with Coupled Analysis and Synthesis Dictionaries**. 2015 IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP). IEEE, 2015. pp. 241-245

Hurmalainen, Antti ; Saeidi, Rahim ; Virtanen, Tuomas. / **Similarity induced group sparsity for non-negative matrix factorisation**. ICASSP, IEEE International Conference on Acoustics, Speech and Signal Processing - Proceedings. The Institute of Electrical and Electronics Engineers, Inc., 2015. pp. 4425-4429

Hirvonen, Juha ; Kallio, Pasi. / **Automatic image-based detection and inspection of paper fibres for grasping**. In: IET Computer Vision. 2015 ; Vol. 9, No. 4. pp. 588-594.

Ruohonen, Jukka ; Hyrynsalmi, Sami ; Leppänen, Ville. / **Exploring the Stability of Software with Time-Series Cross-Sectional Data**. Proceedings - 2nd International Workshop on Software Architecture and Metrics, SAM 2015. Institute of Electrical and Electronics Engineers Inc., 2015. pp. 41-47

Mattila, Anna-Liisa ; Lehtonen, Timo ; Terho, Henri ; Mikkonen, Tommi ; Systä, Kari. / **Mashing Up Software Issue Management, Development, and Usage Data**. 2015 IEEE/ACM 2nd International Workshop on Rapid Continuous Software Engineering (RCoSE). The Institute of Electrical and Electronics Engineers, Inc., 2015. pp. 26-29

Leppänen, Marko ; Hokkanen, Laura. / **Four patterns for internal startups**. Proceedings of the 20th European Conference on Pattern Languages of Programs, EuroPLoP 2015. ACM, 2015.

Hokkanen, Laura ; Leppänen, Marko. / **Three patterns for user involvement in startups**. Proceedings of the 20th European Conference on Pattern Languages of Programs, EuroPLoP 2015. ACM, 2015.

Aytekin, Caglar ; Rezaeitabar, Yousef ; Dogru, Sedat ; Ulusoy, Ilkay. / **Railway fastener inspection by real-time machine vision**. In: IEEE Transactions on Systems, Man, and Cybernetics: Systems. 2015 ; Vol. 45, No. 7. pp. 1101-1107.

Oftadeh, Reza ; Ghabcheloo, Reza ; Mattila, Jouni. / **A time-optimal bounded velocity path-following controller for generic Wheeled Mobile Robots**. 2015 IEEE International Conference on Robotics and Automation (ICRA), 26-30 May 2015, Seattle, WA. Institute of Electrical and Electronics Engineers IEEE, 2015. pp. 676-683

Silverajan, Bilhanan ; Luoma, Juha-Pekka ; Vajaranta, Markku ; Itäpuro, Riku. / **Collaborative cloud-based management of home networks**. Proceedings of the 2015 IFIP/IEEE International Symposium on Integrated Network Management, IM 2015. IEEE, 2015. pp. 786-789

Saketi, Pooya ; Wangyang, Peihua ; Li, Haihua ; Wang, Qingkang ; Kallio, Pasi. / **Electroplated nickel microspring and low-friction precision linear slider : A novel micro-force sensing tool**. 2015 IEEE International Conference on Robotics and Automation (ICRA), 26-30 May 2015, Seattle, WA . 2015. pp. 2679-2684

Vihonen, Juho ; Honkakorpi, Janne ; Mattila, Jouni ; Visa, Ari. / **Novel pairwise coupled kinematic solution for algebraic angular acceleration estimation of serial link manipulators**. 2015 IEEE International Conference on Robotics and Automation (ICRA). Institute of Electrical and Electronics Engineers IEEE, 2015. pp. 809-814

Lauri, Mikko ; Ritala, Risto. / **Optimal sensing via multi-armed bandit relaxations in mixed observability domains**. 2015 IEEE International Conference on Robotics and Automation (ICRA), 26-30 May 2015, Seattle, WA. Vol. 2015-June 2015. pp. 4807-4812

Rindell, Kalle ; Hyrynsalmi, Sami ; Leppänen, Ville. / **A comparison of security assurance support of agile software development methods**. Computer Systems and Technologies - 16th International Conference, CompSysTech 2015: Proceedings. Vol. 1008 Association for Computing Machinery, 2015. pp. 61-68

Peltonen, Jaakko ; Lin, Ziyuan. / **Information retrieval approach to meta-visualization**. In: Machine Learning. 2015 ; Vol. 99, No. 2. pp. 189-229.

Akkil, Deepak ; Kangas, Jari ; Rantala, Jussi ; Isokoski, Poika ; Špakov, Oleg ; Raisamo, Roope. / **Glance awareness and gaze interaction in smartwatches**. CHI 2015 - Extended Abstracts Publication of the 33rd Annual CHI Conference on Human Factors in Computing Systems: Crossings. Vol. 18 Association for Computing Machinery, 2015. pp. 1271-1276

Andolina, Salvatore ; Klouche, Khalil ; Peltonen, Jaakko ; Hoque, Mohammad ; Ruotsalo, Tuukka ; Cabral, Diogo ; Klami, Arto ; Głowacka, Dorota ; Floréen, Patrik ; Jacucci, Giulio. / **Intentstreams : Smart parallel search streams for branching exploratory search**. IUI 2015 - Proceedings of the 20th ACM International Conference on Intelligent User Interfaces. Vol. 2015-January Association for Computing Machinery, 2015. pp. 300-305

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

Leppänen, Marko ; Mäkinen, Simo ; Pagels, Max ; Eloranta, Veli-Pekka ; Itkonen, Juha ; Mäntylä, Mika V. ; Männistö, Tomi. / **The highways and country roads to continuous deployment**. In: IEEE Software. 2015 ; Vol. 32, No. 2. pp. 64-72.

Iosifidis, A. ; Marami, E. ; Tefas, A. ; Pitas, I. ; Lyroudia, K. / **The MOBISERV-AIIA eating and drinking multi-view database for vision-based assisted living**. In: Journal of Information Hiding and Multimedia Signal Processing. 2015 ; Vol. 6, No. 2. pp. 254-273.

Nguyen-Thanh, Duc ; Le-Tien, Thuong ; Bui-Thu, Cao ; Le-Thanh, Toi. / **LTE indoor MIMO performances field measurements**. International Conference on Advanced Technologies for Communications. IEEE, 2015. pp. 84-89

Aflaki, Payman ; Hannuksela, Miska M. ; Gabbouj, Moncef. / **Adaptive spatial resolution selection for stereoscopic video compression with MV-HEVC : A frequency based approach**. 2014 IEEE International Symposium on Multimedia, ISM 2014, 10-12 Dec. 2014, Taichung. The Institute of Electrical and Electronics Engineers, Inc., 2015. pp. 267-270

Cricri, Francesco ; Mate, Sujeet ; Curcio, Igor D D ; Gabbouj, Moncef. / **Salient event detection in basketball mobile videos**. Proceedings - 2014 IEEE International Symposium on Multimedia, ISM 2014. The Institute of Electrical and Electronics Engineers, Inc., 2015. pp. 63-70

M. Aref, Mohammad ; Oftadeh, Reza ; Ghabcheloo, Reza ; Mattila, Jouni. / **Fault tolerant control architecture design for mobile manipulation in scientific facilities**. In: international Journal of Advanced Robotic Systems. 2015 ; Vol. 12, No. 4.

Joutsijoki, Henry ; Rasku, Jyrki ; Haponen, Markus ; Baldin, Ivan ; Gizatdinova, Yulia ; Paci, Michelangelo ; Saarikoski, Jyri ; Varpa, Kirsi ; Siirtola, Harri ; Ávalos-Salguero, Jorge ; Iltanen, Kati ; Laurikkala, Jorma ; Penttinen, Kirsi ; Hyttinen, Jari ; Aalto-Setälä, Katriina ; Juhola, Martti. / **Classification of iPSC colony images using hierarchical strategies with support vector machines**. IEEE SSCI 2014 - 2014 IEEE Symposium Series on Computational Intelligence - CIDM 2014: 2014 IEEE Symposium on Computational Intelligence and Data Mining, Proceedings. The Institute of Electrical and Electronics Engineers, Inc., 2015. pp. 86-92

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

Verginadis, Yiannis ; Michalas, Antonis ; Gouvas, Panagiotis ; Schiefer, Gunther ; Hübsch, Gerald ; Paraskakis, Iraklis. / **PaaSword : A holistic data privacy and security by design framework for cloud services**. CLOSER 2015 - 5th International Conference on Cloud Computing and Services Science, Proceedings. SCITEPRESS, 2015. pp. 206-213

Hasan, Monowar ; Hossain, Ekram ; Balasubramaniam, Sasitharan ; Koucheryavy, Yevgeni. / **Social behavior in bacterial nanonetworks : Challenges and opportunities**. In: IEEE Network. 2015 ; Vol. 29, No. 1. pp. 26-34.

Efimushkina, T. ; Gabbouj, M. ; Samuylov, K. / **Analytical model in discrete time for cross-layer video communication over LTE**. In: Automatic Control and Computer Sciences. 2015 ; Vol. 48, No. 6. pp. 345-357.

Malinen, Sanna ; Nurkka, Piia. / **Cultural influence on online community use : A cross-cultural study on online exercise diary users of three nationalities**. In: International Journal of Web Based Communities. 2015 ; Vol. 11, No. 2. pp. 153-169.

Suonsyrjä, Sampo ; Mikkonen, Tommi . / **Designing an Unobtrusive Analytics Framework for Monitoring Java Applications** . Software Measurement: 25th International Workshop on Software Measurement and 10th International Conference on Software Process and Product Measurement, IWSM-Mensura 2015, Kraków, Poland, October 5–7, 2015, Proceedings. editor / Andrzej Kobyliński ; Beata Czarnacka-Chrobot ; Jarosław Świerczek. Vol. 230 Springer International Publishing, 2015. pp. 160-175 (Lecture Notes in Business Information Processing).

Pertilä, Pasi ; Nikunen, Joonas. / **Distant speech separation using predicted time-frequency masks from spatial features**. In: Speech Communication. 2015 ; Vol. 68. pp. 97-106.

Sharmin, Selina ; Špakov, Oleg ; Rähkä, Kari Jouko. / **Dynamic text presentation in print interpreting - An eye movement study of reading behaviour**. In: International Journal of Human-Computer Studies. 2015 ; Vol. 78. pp. 17-30.

Yang, Zhirong ; Peltonen, Jaakko ; Kaski, Samuel. / **Majorization-minimization for manifold embedding**. In: Journal of Machine Learning Research. 2015 ; Vol. 38. pp. 1088-1097.

Valmari, Antti. / **On constructibility and unconstructibility of LTS operators from other LTS operators**. In: Acta Informatica. 2015 ; Vol. 52, No. 2-3. pp. 207-234.

Heinimäki, Teemu J. ; Elomaa, Tapio. / **Quality measures for improving technology trees**. In: International Journal of Computer Games Technology. 2015 ; Vol. 2015.

Dricot, Antoine ; Jung, Joel ; Cagnazzo, Marco ; Pesquet, Béatrice ; Dufaux, Frédéric ; Kovács, Péter ; Adhikarla, Vamsi Kiran. / **Subjective evaluation of Super Multi-View compressed contents on high-end light-field 3D displays**. In: Signal Processing: Image Communication. 2015 ; Vol. 39, No. Part B. pp. 369–385.

Keskinen, Tuuli ; Hakulinen, Jaakko ; Turunen, Markku ; Heimonen, Tomi ; Sand, Antti ; Paavilainen, Janne ; Parviainen, Jaana ; Yrjänäinen, Sari ; Mäyrä, Frans ; Okkonen, Jussi ; Raisamo, Roope. / **Schoolchildren's user experiences on a physical exercise game utilizing lighting and audio**. In: Entertainment Computing. 2014 ; Vol. 5, No. 4. pp. 475-484.

Kultima, Annakaisa ; Nummenmaa, Timo ; Tyni, Heikki ; Alha, Kati ; Mayra, Frans. / **Goofy Mus, grumpy Mur and dirty Muf : Talking playful seats with personalities**. ACE 2014 - 11th Advances in Computer Entertainment Technology Conference, Workshops Proceedings. Vol. 11-14-November-2014 Association for Computing Machinery, 2014.

Mäkelä, Ville ; Heimonen, Tomi ; Luhtala, Matti ; Turunen, Markku. / **Information wall : Evaluation of a gesture-controlled public display**. ACE 2014 - 11th Advances in Computer Entertainment Technology Conference, Proceedings. Vol. 2014-November Association for Computing Machinery, 2014. pp. 228-231

Sharma, Sumita ; Srivastava, Saurabh ; Sorathia, Keyur ; Hakulinen, Jaakko ; Heimonen, Tomi ; Turunen, Markku ; Rajput, Nitendra. / **Body-touching : An embodied interaction technique for health information systems in developing regions**. MINDTREK 2014 - Proceedings of the 18th International Academic MindTrek Conference: "Media Business, Management, Content and Services". Association for Computing Machinery, Inc, 2014. pp. 49-56

Luhtala, Matti ; Heimonen, Tomi ; Mäkelä, Ville ; Keskinen, Tuuli ; Turunen, Markku ; Saarinen, Santeri. / **DYNAMO sound engine - Exploring the aesthetics of dynamic sound interactions**. MINDTREK 2014 - Proceedings of the 18th International Academic MindTrek Conference: "Media Business, Management, Content and Services". Association for Computing Machinery, Inc, 2014. pp. 159-166

Franssila, Heljä ; Okkonen, Jussi ; Savolainen, Reijo. / **Email intensity, productivity and control in the knowledge worker's performance on the desktop**. MINDTREK 2014 - Proceedings of the 18th International Academic MindTrek Conference: "Media Business, Management, Content and Services". Association for Computing Machinery, Inc, 2014. pp. 19-22

Salmela, Jussi Matti ; Thanisch, Peter ; Sotamaa, Olli ; Niemi, Tapio. / **Games and energy : Profiling power usage during play**. MINDTREK 2014 - Proceedings of the 18th International Academic MindTrek Conference: "Media Business, Management, Content and Services". Association for Computing Machinery, Inc, 2014. pp. 192-199

Nummenmaa, Timo ; Kultima, Annakaisa ; Tyni, Heikki ; Alha, Kati. / **MurMur Moderators, the talking playful seats**. MINDTREK 2014 - Proceedings of the 18th International Academic MindTrek Conference: "Media Business, Management, Content and Services". Association for Computing Machinery, Inc, 2014. pp. 231-237

Iosifidis, Alexandros ; Tefas, Anastastios ; Pitas, Ioannis. / **Discriminant Bag of Words based representation for human action recognition**. In: Pattern Recognition Letters. 2014 ; Vol. 49. pp. 185-192.

Iosifidis, Alexandros ; Tefas, Anastastios ; Pitas, Ioannis. / **Kernel reference discriminant analysis**. In: Pattern Recognition Letters. 2014 ; Vol. 49. pp. 85-91.

Nukarinen, Tomi ; Raisamo, Roope ; Farooq, Ahmed ; Evreinov, Grigori ; Surakka, Veikko. / **Effects of directional haptic and non-speech audio cues in a cognitively demanding navigation task**. Proceedings of the NordiCHI 2014: The 8th Nordic Conference on Human-Computer Interaction: Fun, Fast, Foundational. Association for Computing Machinery, Inc, 2014. pp. 61-64

Käki, Karoliina ; Špakov, Oleg ; Majaranta, Päivi ; Kangas, Jari. / **Effects of haptic feedback on gaze based auto scrolling**. Proceedings of the NordiCHI 2014: The 8th Nordic Conference on Human-Computer Interaction: Fun, Fast, Foundational. Association for Computing Machinery, Inc, 2014. pp. 947-950

Räihä, Kari Jouko ; Sharmin, Selina. / **Gaze-contingent scrolling and reading patterns**. Proceedings of the NordiCHI 2014: The 8th Nordic Conference on Human-Computer Interaction: Fun, Fast, Foundational. Association for Computing Machinery, Inc, 2014. pp. 65-68

Pirhonen, Antti ; Parviainen, Jaana ; Tuuri, Kai ; Turunen, Markku ; Heimonen, Tomi. / **Human-technology choreographies : Re-thinking body, movement and space in interaction design**. Proceedings of the NordiCHI 2014: The 8th Nordic Conference on Human-Computer Interaction: Fun, Fast, Foundational. Association for Computing Machinery, Inc, 2014. pp. 841-844

Övermark, Reetta ; Isokoski, Poika ; Ovaska, Salla. / **Seniors and text messaging on mobile touchscreen phones**. Proceedings of the NordiCHI 2014: The 8th Nordic Conference on Human-Computer Interaction: Fun, Fast, Foundational. Association for Computing Machinery, Inc, 2014. pp. 967-970

Kaasinen, Eija ; Väättäjä, Heli ; Karvonen, Hannu ; Lu, Yichen. / **The fuzzy front end of experience design**. Proceedings of the NordiCHI 2014: The 8th Nordic Conference on Human-Computer Interaction: Fun, Fast, Foundational. New York, NY : ACM, 2014. pp. 797-800 (Nordic conference on human-computer interaction).

Kangas, Jari ; Akkil, Deepak ; Rantala, Jussi ; Isokoski, Poika ; Majaranta, Päivi ; Raisamo, Roope. / **Using gaze gestures with haptic feedback on glasses**. Proceedings of the NordiCHI 2014: The 8th Nordic Conference on Human-Computer Interaction: Fun, Fast, Foundational. Association for Computing Machinery, Inc, 2014. pp. 1047-1050

Lenarduzzi, Valentina ; Morasca, Sandro ; Taibi, Davide. / **Estimating software development effort based on phases**. Proceedings - 40th Euromicro Conference Series on Software Engineering and Advanced Applications, SEAA 2014. Institute of Electrical and Electronics Engineers Inc., 2014. pp. 305-308

Diebold, Philipp ; Dieudonne, Laurent ; Taibi, Davide. / **Process configuration framework tool**. Proceedings - 40th Euromicro Conference Series on Software Engineering and Advanced Applications, SEAA 2014. Institute of Electrical and Electronics Engineers Inc., 2014. pp. 389-390

Eloranta, Veli-Pekka. / **Patterns for controlling chaos in a startup**. VikingPLOP 2014 Proceedings of the 8th Nordic Conference on Pattern Languages of Programs. Vol. 2014-April Association for Computing Machinery, 2014. pp. 1-8 (ACM International Conference Proceeding Series).

Leppänen, Marko. / **Two patterns for minimizing human resources in a startup**. VikingPLOP 2014 Proceedings of the 8th Nordic Conference on Pattern Languages of Programs (VikingPLOP) . ACM, 2014.

Syeed, M. M Mahbulul ; Hammouda, Imed ; Systä, Tarja. / **Prediction models and techniques for Open Source Software projects : A systematic literature review**. In: International Journal of Open Source Software and Processes. 2014 ; Vol. 5, No. 2. pp. 1-39.

Pajarinen, Joni ; Hottinen, Ari ; Peltonen, Jaakko. / **Optimizing spatial and temporal reuse in wireless networks by decentralized partially observable markov decision processes**. In: IEEE Transactions on Mobile Computing. 2014 ; Vol. 13, No. 4. pp. 866-879.

Oftadeh, Reza ; Aref, Mohammad M. ; Ghabcheloo, Reza ; Mattila, Jouni. / **System integration for real-time mobile manipulation**. In: international Journal of Advanced Robotic Systems. 2014 ; Vol. 11, No. 1.

Dehmer, Matthias ; Emmert-Streib, Frank ; Grabner, Martin. / **A computational approach to construct a multivariate complete graph invariant**. In: Information Sciences. 2014 ; Vol. 260. pp. 200-208.

Farooq, Ahmed ; Evreinov, Grigori ; Raisamo, Roope ; Mäkinen, Erno ; Nukarinen, Tomi ; Majeed, Atif Abdul. / **Developing novel multimodal interaction techniques for touchscreen in-vehicle infotainment systems**. ICOSST 2014 - 2014 International Conference on Open Source Systems and Technologies, Proceedings. Institute of Electrical and Electronics Engineers Inc., 2014. pp. 32-42

Farooq, Ahmed ; Evreinov, Grigori ; Raisamo, Roope ; Majeed, Atif Abdul. / **Haptic user interface enhancement system for touchscreen based interaction : A novel system for multimodal interaction with touchscreen interfaces**. ICOSST 2014 - 2014 International Conference on Open Source Systems and Technologies, Proceedings. Institute of Electrical and Electronics Engineers Inc., 2014. pp. 25-31

Lauren, Samuel ; Maki, Petteri ; Rauti, Sampsa ; Hosseinzadeh, Shohreh ; Hyrynsalmi, Sami ; Leppanen, Ville. / **Symbol diversification of linux binaries**. 2014 World Congress on Internet Security, WorldCIS 2014. Institute of Electrical and Electronics Engineers Inc., 2014. pp. 74-79

Paladi, Nicolae ; Michalas, Antonis ; Gehrman, Christian. / **Domain based storage protection with secure access control for the cloud**. SCC 2014 - Proceedings of the 2nd International Workshop on Security in Cloud Computing. Association for Computing Machinery, 2014. pp. 35-42

Michalas, Antonis ; Komninos, Nikos. / **The lord of the sense : A privacy preserving reputation system for participatory sensing applications**. 2014 IEEE Symposium on Computers and Communications, ISCC 2014 - Proceedings. Institute of Electrical and Electronics Engineers Inc., 2014.

Mouaffo, Adrien ; Taibi, Davide ; Jamboti, Kavyashree. / **Controlled experiments comparing fault-tree-based safety analysis techniques**. 18th International Conference on Evaluation and Assessment in Software Engineering, EASE 2014. Association for Computing Machinery (ACM), 2014.

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

Kangas, Jari ; Akkil, Deepak ; Rantala, Jussi ; Isokoski, Poika ; Majaranta, Päivi ; Raisamo, Roope. / **Gaze gestures and haptic feedback in mobile devices**. CHI 2014: One of a CHIInd - Conference Proceedings, 32nd Annual ACM Conference on Human Factors in Computing Systems. Association for Computing Machinery, 2014. pp. 435-438

Rantala, Jussi ; Isokoski, Poika ; Kangas, Jari ; Raisamo, Roope ; Akkil, Deepak. / **Glasses with haptic feedback of gaze gestures**. CHI EA 2014: One of a CHIInd - Extended Abstracts, 32nd Annual ACM Conference on Human Factors in Computing Systems. Association for Computing Machinery, 2014. pp. 1597-1602

Ilves, Mirja ; Gizatdinova, Yulia ; Surakka, Veikko ; Vankka, Esko. / **Head movement and facial expressions as game input**. In: Entertainment Computing. 2014 ; Vol. 5, No. 3. pp. 147-156.

Ruotsalo, Tuukka ; Peltonen, Jaakko ; Eugster, Manuel J A ; Glowacka, Dorota ; Reijonen, Aki ; Jacucci, Giulio ; Myllymäki, Petri ; Kaski, Samuel. / **IntentRadar : Search user interface that anticipates user's search intents**. CHI EA 2014: One of a CHIInd - Extended Abstracts, 32nd Annual ACM Conference on Human Factors in Computing Systems. Association for Computing Machinery, 2014. pp. 455-458

Olsson, Thomas. / **Layers of user expectations of future technologies : An early framework**. CHI EA 2014: One of a CHIInd - Extended Abstracts, 32nd Annual ACM Conference on Human Factors in Computing Systems. Association for Computing Machinery, 2014. pp. 1957-1962

Nyländén, Teemu ; Boutellier, Jani ; Nikunen, Karri ; Hannuksela, Jari ; Silvén, Olli. / **Low-Power Reconfigurable Miniature Sensor Nodes for Condition Monitoring**. In: International Journal of Parallel Programming. 2014 ; Vol. 43, No. 1. pp. 3-23.

Iosifidis, Alexandros ; Tefas, Anastasios ; Pitas, Ioannis. / **Minimum Variance Extreme Learning Machine for human action recognition**. ICASSP, IEEE International Conference on Acoustics, Speech and Signal Processing - Proceedings. The Institute of Electrical and Electronics Engineers, Inc., 2014. pp. 5427-5431

Li, Xiaozhou ; Zhang, Zheyang ; Nummenmaa, Jyrki. / **Models for mobile application maintenance based on update history**. ENASE 2014 - Proceedings of the 9th International Conference on Evaluation of Novel Approaches to Software Engineering. SCITEPRESS, 2014. pp. 212-217

Kovács, Peter ; Samiee, Kaveh ; Gabbouj, Moncef. / **On application of rational Discrete Short Time Fourier Transform in epileptic seizure classification**. 2014 IEEE International Conference on Acoustics, Speech and Signal processing (ICASSP), May 4-9 2014, Florence, Italy. Piscataway : IEEE, 2014. pp. 5839-5843 (IEEE International Conference on Acoustics, Speech and Signal Processing).

Jarusriboonchai, Pradthana ; Olsson, Thomas ; Ojala, Jarno ; Väänänen-Vainio-Mattila, Kaisa. / **Opportunities and Challenges of Mobile Applications as "Tickets-to-Talk": A Scenario-Based User Study**. Proceedings of the 13th International Conference on Mobile and Ubiquitous Multimedia, MUM2014, November 25-28, 2014, Melbourne, Australia. New York, NY : ACM, 2014. pp. 89-97 (International conference on mobile and ubiquitous multimedia).

Bunte, Kerstin ; Järvisalo, Matti ; Berg, Jeremias ; Myllymäki, Petri ; Peltonen, Jaakko ; Kaski, Samuel. / **Optimal neighborhood preserving visualization by Maximum satisfiability**. Proceedings of the National Conference on Artificial Intelligence. Vol. 3 AI Access Foundation, 2014. pp. 1694-1700

Yang, Zhirong ; Peltonen, Jaakko ; Kaski, Samuel. / **Optimization equivalence of divergences improves neighbor embedding**. 31st International Conference on Machine Learning, ICML 2014. Vol. 2 International Machine Learning Society (IMLS), 2014. pp. 1808-1839

Haaranen, Lassi ; Hakulinen, Lasse ; Ihantola, Petri ; Korhonen, Ari. / **Software architectures for implementing achievement badges - Practical experiences**. Proceedings - 2014 International Conference on Teaching and Learning in Computing and Engineering, LATICE 2014. IEEE COMPUTER SOCIETY PRESS, 2014. pp. 41-46

McAllister, John ; Guevorkian, David ; Jeschke, Hartwig ; Sima, Mihai. / **Special Issue on Embedded Computer Systems: Architectures, Modeling and Simulation**. In: International Journal of Parallel Programming. 2014 ; Vol. 43, No. 1.

Clawson, James ; Isokoski, Poika ; Brewster, Stephen ; Oulasvirta, Antti ; Dunlop, Mark ; Vertanen, Keith ; Kristensson, Per Ola ; Waller, Annalu. / **The usability of text entry systems now and in the future**. CHI EA 2014: One of a ChiNd - Extended Abstracts, 32nd Annual ACM Conference on Human Factors in Computing Systems. Association for Computing Machinery, 2014. pp. 1139-1142

Yviquel, Hervé ; Boutellier, Jani ; Raulet, Mickaël ; Casseau, Emmanuel. / **Automated design of networks of transport-triggered architecture processors using dynamic dataflow programs**. In: Signal Processing: Image Communication. 2013 ; Vol. 28, No. 10. pp. 1295-1302.

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

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

Evreinova, Tatiana V. ; Evreinov, Grigori ; Raisamo, Roope. / **An evaluation of the virtual curvature with the StickGrip haptic device : A case study**. In: Universal Access in the Information Society. 2013 ; Vol. 12, No. 2. pp. 161-173.

Iosifidis, Alexandros ; Tefas, Anastasios ; Pitas, Ioannis. / **Multi-view action recognition based on action volumes, fuzzy distances and cluster discriminant analysis**. In: Signal Processing. 2013 ; Vol. 93, No. 6. pp. 1445-1457.

Liuhanen, Sasu ; Sallisalimi, Marko ; Pettilä, Ville ; Oksala, Niku ; Tenhunen, Jyrki. / **Indirect measurement of the vascular endothelial glycocalyx layer thickness in human submucosal capillaries with a plug-in for ImageJ**. In: Computer Methods and Programs in Biomedicine. 2013 ; Vol. 110, No. 1. pp. 38-47.

Lee, Dongwon ; Wolf, Marilyn ; Bhattacharyya, Shuvra S. / **High-performance and low-energy buffer mapping method for multiprocessor DSP systems**. In: ACM Transactions on Embedded Computing Systems. 2013 ; Vol. 12, No. 3.

Luhtala, Matti ; Turunen, Markku ; Hakulinen, Jaakko ; Keskinen, Tuuli. / **'Aie-studio' - A pragmatist aesthetic approach for procedural sound design**. Proceedings of the 8th Audio Mostly: A Conference on Interaction with Sound, AM 2013 - In Cooperation with ACM SIGCHI. Association for Computing Machinery, 2013.

Petrov, Vitaly ; Komar, Maria ; Koucheryavy, Yevgeni. / **A lightweight many-to-many authentication protocol for near field communications**. Proceedings of the 2013 21st IEEE International Conference on Network Protocols, ICNP 2013. IEEE COMPUTER SOCIETY PRESS, 2013.

Rakkolainen, Ismo ; Sand, Antti. / **A movable immaterial volumetric display**. SIGGRAPH Asia 2013 Posters, SA 2013. 2013.

Nummenmaa, Jyrki ; Marttila-Kontio, Maija ; Nummenmaa, Timo. / **Checking visual data flow programs with finite process models**. 13th Symposium on Programming Languages and Software Tools, SPLST 2013 - Proceedings. University of Szeged, 2013. pp. 245-258

Iosifidis, Alexandros ; Tefas, Anastasios ; Pitas, Ioannis. / **Dynamic action recognition based on dynemes and Extreme Learning Machine**. In: Pattern Recognition Letters. 2013 ; Vol. 34, No. 15. pp. 1890-1898.

Cui, Yanqing ; Kangas, Jari ; Holm, Jukka ; Grassel, Guido. / **Front-camera video recordings as emotion responses to mobile photos shared within close-knit groups**. CHI 2013: Changing Perspectives, Conference Proceedings - The 31st Annual CHI Conference on Human Factors in Computing Systems. 2013. pp. 981-990

Fuccella, Vittorio ; Isokoski, Poika ; Martin, Benoît. / **Gestures and widgets : Performance in text editing on multi-touch capable mobile devices**. CHI 2013: Changing Perspectives, Conference Proceedings - The 31st Annual CHI Conference on Human Factors in Computing Systems. 2013. pp. 2785-2794

Ellervee, Peeter ; Nurmi, Jari. / **Guest editorial**. In: Microprocessors and Microsystems. 2013 ; Vol. 37, No. 4-5. pp. 430-431.

Ihantola, Petri ; Helminen, Juha ; Karavirta, Ville. / **How to study programming on mobile touch devices - Interactive Python code exercises**. Proceedings - 13th Koli Calling International Conference on Computing Education Research, Koli Calling 2013. 2013. pp. 51-58

Peltonen, Jaakko ; Lin, Ziyuan. / **Information retrieval perspective to meta-visualization**. In: Journal of Machine Learning Research. 2013 ; Vol. 29. pp. 165-180.

Lebeda, Karel ; Hadfield, Simon ; Matas, Jiri ; Bowden, Richard. / **Long-term tracking through failure cases**. Proceedings - 2013 IEEE International Conference on Computer Vision Workshops, ICCVW 2013. Institute of Electrical and Electronics Engineers Inc., 2013. pp. 153-160

Sand, Antti ; Rakkolainen, Ismo. / **Mixed reality with multimodal head-mounted pico projector**. Proceedings of the Virtual Reality International Conference on Laval Virtual, VRIC 2013. 2013.

Iosifidis, Alexandros ; Tefas, Anastasios ; Pitas, Ioannis. / **On the optimal class representation in linear discriminant analysis**. In: IEEE Transactions on Neural Networks and Learning Systems . 2013 ; Vol. 24, No. 9. pp. 1491-1497.

Kawahara, Yoshihiro ; Bian, Xiaoying ; Shigeta, Ryo ; Vyas, Rushi ; Tentzeris, Manos M. ; Asami, Tohru. / **Power harvesting from microwave oven electromagnetic leakage**. UbiComp 2013 - Proceedings of the 2013 ACM International Joint Conference on Pervasive and Ubiquitous Computing. 2013. pp. 373-381

Sharmin, Selina ; Špakov, Oleg ; Rähkä, Kari Jouko. / **Reading on-screen text with gaze-based auto-scrolling**. Proceedings of the 2013 Conference on Eye Tracking South Africa, ETSA 2013. 2013. pp. 24-31

Helminen, Juha ; Ihantola, Petri ; Karavirta, Ville. / **Recording and analyzing in-browser programming sessions**. Proceedings - 13th Koli Calling International Conference on Computing Education Research, Koli Calling 2013. 2013. pp. 13-22

Nanavati, Amit A. ; Rajput, Nitendra ; Srivastava, Saurabh ; Erkut, Cumhur ; Jylhä, Antti ; Rudnicky, Alexander I. ; Serafin, Stefania ; Turunen, Markku. / **SiMPE : 8th workshop on speech and sound in mobile and pervasive environments**. MobileHCI 2013 - Proceedings of the 15th International Conference on Human-Computer Interaction with Mobile Devices and Services. 2013. pp. 626-629

Kristan, Matej ; Pflugfelder, Roman ; Leonardis, Aleš ; Matas, Jiri ; Porikli, Fatih ; Čehovin, Luka ; Nebehay, Georg ; Fernandez, Gustavo ; Vojíš, Tomáš ; Gatt, Adam ; Khajenezhad, Ahmad ; Salahledin, Ahmed ; Soltani-Farani, Ali ; Zarezade, Ali ; Petrosino, Alfredo ; Milton, Anthony ; Bozorgtabar, Behzad ; Li, Bo ; Chan, Chee Seng ; Heng, Cherkeng ; Ward, Dale ; Kearney, David ; Monekosso, Dorothy ; Karaimer, Hakki Can ; Rabiee, Hamid R. ; Zhu, Jianke ; Gao, Jin ; Xiao, Jingjing ; Zhang, Junge ; Xing, Junliang ; Huang, Kaiqi ; Lebeda, Karel ; Cao, Lijun ; Maresca, Mario Edoardo ; Lim, Mei Kuan ; ELHelw, Mohamed ; Felsberg, Michael ; Remagnino, Paolo ; Bowden, Richard ; Goecke, Roland ; Stolkin, Rustam ; Lim, Samantha Yue Ying ; Maher, Sara ; Poullot, Sebastien ; Wong, Sebastien ; Satoh, Shin'ichi ; Chen, Weihua ; Hu, Weiming ; Zhang, Xiaoqin ; Li, Yang ; Niu, Zhiheng. / **The visual object tracking VOT2013 challenge results**. Proceedings - 2013 IEEE International Conference on Computer Vision Workshops, ICCVW 2013. Institute of Electrical and Electronics Engineers Inc., 2013. pp. 98-111

Rantala, Jussi ; Salminen, Katri ; Raisamo, Roope ; Surakka, Veikko. / **Touch gestures in communicating emotional intention via vibrotactile stimulation**. In: International Journal of Human-Computer Studies. 2013 ; Vol. 71, No. 6. pp. 679-690.

Makni, Nasr ; Puech, Philippe ; Colin, Pierre ; Azzouzi, Abdelrahmene ; Mordon, Serge ; Betrouni, Nacim. / **Elastic image registration for guiding focal laser ablation of prostate cancer : Preliminary results**. In: Computer Methods and Programs in Biomedicine. 2012 ; Vol. 108, No. 1. pp. 213-223.

Leen, Gayle ; Peltonen, Jaakko ; Kaski, Samuel. / **Focused multi-task learning in a Gaussian process framework**. In: Machine Learning. 2012 ; Vol. 89, No. 1-2. pp. 157-182.

Keskinen, Tuuli ; Heimonen, Tomi ; Turunen, Markku ; Rajaniemi, Juha Pekka ; Kauppinen, Sami. / **SymbolChat : A flexible picture-based communication platform for users with intellectual disabilities**. In: Interacting with Computers. 2012 ; Vol. 24, No. 5. pp. 374-386.

Kumpulainen, Sanna ; Järvelin, Kalervo. / **Barriers to task-based information access in molecular medicine**. In: JOURNAL OF THE ASSOCIATION FOR INFORMATION SCIENCE AND TECHNOLOGY. 2012 ; Vol. 63, No. 1. pp. 86-97.

Bulling, Andreas ; Brône, Geert ; Cheng, Shiwei ; Majaranta, Päivi. / **2nd international workshop on pervasive eye tracking and mobile eye-based interaction (PETMEI 2012) : Proposal for a workshop (mini-track) at UbiComp 2012**. UbiComp'12 - Proceedings of the 2012 ACM Conference on Ubiquitous Computing. 2012. pp. 673-676

Lavazza, Luigi ; Morasca, Sandro ; Taibi, Davide ; Tosi, Davide. / **An empirical investigation of perceived reliability of open source Java programs**. 27th Annual ACM Symposium on Applied Computing, SAC 2012. 2012. pp. 1109-1114

Räihä, Kari Jouko ; Ovaska, Saila. / **An exploratory study of eye typing fundamentals : Dwell time, text entry rate, errors, and workload**. Conference Proceedings - The 30th ACM Conference on Human Factors in Computing Systems, CHI 2012. 2012. pp. 3001-3010

Väätäjä, Heli ; Egglestone, Paul. / **Briefing news reporting with mobile assignments - Perceptions, needs and challenges**. Proceedings of the ACM 2012 conference on Computer Supported Cooperative Work CSCW'12 Seattle, WA, USA, February 11-15, 2012. New York, NY : ACM, 2012. pp. 485-494 (ACM Conference on Computer Supported Cooperative Work).

Gizatdinova, Yulia ; Špakov, Oleg ; Surakka, Veikko. / **Comparison of video-based pointing and selection techniques for hands-free text entry**. Proceedings of the Working Conference on Advanced Visual Interfaces, AVI 2012. 2012. pp. 132-139

Martin, Benoît ; Isokoski, Poika ; Karmann, Gregory ; Rollinger, Thomas. / **Continuous Edgewise : Dictionary-based disambiguation instead of explicit segmentation by the user**. Proceedings of the Working Conference on Advanced Visual Interfaces, AVI 2012. 2012. pp. 357-364

Kristensson, Per Ola ; Clawson, James ; Dunlop, Mark ; Isokoski, Poika ; Roark, Brian ; Vertanen, Keith ; Waller, Annalu ; Wobbrock, Jacob. / **Designing and evaluating text entry methods**. Extended Abstracts - The 30th ACM Conference on Human Factors in Computing Systems, CHI 2012. 2012. pp. 2747-2750

Špakov, Oleg ; Majaranta, Päivi. / **Enhanced gaze interaction using simple head gestures**. UbiComp'12 - Proceedings of the 2012 ACM Conference on Ubiquitous Computing. 2012. pp. 705-710

Mineraud, Julien ; Donnelly, William ; Balasubramaniam, Sasitharan ; Kangasharju, Jussi. / **FS-PGBR : A scalable and delay sensitive cloud routing protocol**. Proceedings of the ACM SIGCOMM 2012 and Best Papers of the Co-located Workshops. Vol. 42 4. ed. 2012. pp. 301-302

Kim, Sangkil ; Kawahara, Yoshihiro ; Tentzeris, Manos M. / **Inkjet-printed monopole antennas for enhanced-range WBAN and wearable biomonitoring application**. MobileHealth'12 - Proceedings of the 2nd ACM International Workshop on Pervasive Wireless Healthcare. 2012. pp. 33-38

Alam, Md Hijbul ; Ha, Jong Woo ; Lee, Sang Keun. / **Novel approaches to crawling important pages early**. In: Knowledge and Information Systems. 2012 ; Vol. 33, No. 3. pp. 707-734.

Lavazza, Luigi ; Morasca, Sandro ; Taibi, Davide ; Tosi, Davide. / **On the definition of dynamic software measures**. In: International Symposium on Empirical Software Engineering and Measurement. 2012 ; pp. 39-48.

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

Fikadu, Mulugeta K. ; Elmusrati, Mohammed ; Virrankoski, Reino. / **Power allocation in multi-node cooperative network in Rician fading channels**. 2012 IEEE 8th International Conference on Wireless and Mobile Computing, Networking and Communications, WiMob 2012. 2012. pp. 496-501

Kawahara, Yoshihiro ; Lee, Hoseon ; Tentzeris, Manos M. / **SenSprout : Inkjet-printed soil moisture and leaf wetness sensor**. UbiComp'12 - Proceedings of the 2012 ACM Conference on Ubiquitous Computing. 2012. pp. 545

Nanavati, Amit Anil ; Rajput, Nitendra ; Rudnicky, Alexandar I. ; Turunen, Markku ; Sandholm, Thomas ; Munteanu, Cosmin ; Penn, Gerald. / **SIMPE : 7th Workshop on speech and sound in mobile and pervasive environments**. MobileHCI'12 - Companion Proceedings of the 14th International Conference on Human Computer Interaction with Mobile Devices and Services. 2012. pp. 251-253

Zhou, Zheng ; Shen, Chung Ching ; Plishker, William ; Wu, Hsiang Huang ; Bhattacharyya, Shuvra S. / **Systematic integration of flowgraph- and module-level parallelism in implementation of DSP applications on multiprocessor systems-on-chip**. ICSP 2012 - 2012 11th International Conference on Signal Processing, Proceedings. Vol. 1 2012. pp. 402-408

Hammouda, Imed ; Koskimies, Kai ; Mikkonen, Tommi. / **Managing concern knowledge in software systems**. In: INTERNATIONAL JOURNAL OF SOFTWARE ENGINEERING AND KNOWLEDGE ENGINEERING. 2011 ; Vol. 21, No. 7. pp. 957-987.

Smith, Cameron ; Crook, Nigel ; Dobnik, Simon ; Charlton, Daniel ; Boye, Johan ; Pulman, Stephen ; Santos de la Cámara, Raul ; Turunen, Markku ; Benyon, David ; Bradley, Jay ; Gambäck, Björn ; Hansen, Preben ; Mival, Oli ; Webb, Nick ; Cavazza, Marc. / **Interaction strategies for an affective conversational agent**. In: Presence: Teleoperators and Virtual Environments. 2011 ; Vol. 20, No. 5. pp. 395-411.

Del Bianco, Vieri ; Lavazza, Luigi ; Morasca, Sandro ; Taibi, Davide. / **A survey on open source software trustworthiness**. In: IEEE Software. 2011 ; Vol. 28, No. 5. pp. 67-75.

Morasca, Sandro ; Taibi, Davide ; Tosi, Davide. / **Guidelines for improving the testing process of open source software**. In: International Journal of Open Source Software and Processes. 2011 ; Vol. 3, No. 2. pp. 1-22.

Turunen, Markku ; Hakulinen, Jaakko ; Ståhl, Olov ; Gambäck, Björn ; Hansen, Preben ; Rodríguez Gancedo, Mari C. ; De La Cámara, Raúl Santos ; Smith, Cameron ; Charlton, Daniel ; Cavazza, Marc. / **Multimodal and mobile conversational Health and Fitness Companions**. In: Computer Speech and Language. 2011 ; Vol. 25, No. 2. pp. 192-209.

Wilks, Yorick ; Catizone, Roberta ; Worgan, Simon ; Turunen, Markku. / **Some background on dialogue management and conversational speech for dialogue systems**. In: Computer Speech and Language. 2011 ; Vol. 25, No. 2. pp. 128-139.

Wu, Hsiang Huang ; Shen, Chung Ching ; Sane, Nimish ; Plishker, William ; Bhattacharyya, Shuvra S. / **A model-based schedule representation for heterogeneous mapping of dataflow graphs**. 2011 IEEE International Symposium on Parallel and Distributed Processing, Workshops and Phd Forum, IPDPSW 2011. 2011. pp. 70-81

Brumley, Billy ; Page, Dan. / **Bit-sliced binary normal basis multiplication**. Proceedings - 20th IEEE Symposium on Computer Arithmetic, ARITH-20. 2011. pp. 205-212

Špakov, Oleg. / **Comparison of gaze-to-objects mapping algorithms**. Proceedings of the 1st Conference on Novel Gaze-Controlled Applications, NGCA'11. 2011.

Nummenmaa, Jyrki ; Nummenmaa, Timo. / **Database-driven tool support for DisCo executable specifications**. SPLST'11 - Proceedings 12th Symposium on Programming Languages and Software Tools. 2011. pp. 44-54

Lylykangas, Jani ; Surakka, Veikko ; Salminen, Katri ; Raisamo, Jukka ; Laitinen, Pauli ; Rönning, Kasper ; Raisamo, Roope. / **Designing tactile feedback for piezo buttons**. CHI 2011 - 29th Annual CHI Conference on Human Factors in Computing Systems, Conference Proceedings and Extended Abstracts. 2011. pp. 3281-3284

Gizatdinova, Yulia ; Surakka, Veikko ; Zhao, Guoying ; Mäkinen, Erno ; Raisamo, Roope. / **Facial expression classification based on local spatiotemporal edge and texture descriptors**. Selected Papers from the Proceedings of the 7th International Conference on Methods and Techniques in Behavioral Research - Digital Edition, MB'10. 2011.

Hamari, Juho ; Eranti, Veikko. / **Framework for designing and evaluating game achievements**. Proceedings of DiGRA 2011 Conference: Think Design Play. 2011.

Peltonen, Jaakko ; Kaski, Samuel. / **Generative modeling for maximizing precision and recall in information visualization**. In: Journal of Machine Learning Research. 2011 ; Vol. 15. pp. 579-587.

Stenros, Jaakko ; Holopainen, Jussi ; Waern, Annika ; Montola, Markus ; Ollila, Elina. / **Narrative friction in Alternate Reality Games : Design insights from conspiracy for good**. Proceedings of DiGRA 2011 Conference: Think Design Play. 2011.

Toivonen, Saara ; Sotamaa, Olli. / **Of discs, boxes and cartridges : The material life of digital games**. Proceedings of DiGRA 2011 Conference: Think Design Play. 2011.

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

Quinn, Philip ; Cockburn, Andy ; Rähkä, Kari Jouko ; Delamarche, Jérôme. / **On the costs of multiple trajectory pointing methods**. CHI 2011 - 29th Annual CHI Conference on Human Factors in Computing Systems, Conference Proceedings and Extended Abstracts. 2011. pp. 859-862

Hakonen, Harri ; Hyrynsalmi, Sami ; Järvi, Antero. / **Reducing the number of unit tests with design by contract**. Computer Systems and Technologies - 12th International Conference, CompSysTech'11 - Proceedings. Vol. 578 2011. pp. 161-166

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

Sariola, Veikko ; Liimatainen, Ville ; Tolonen, Tatu ; Udd, Reidar ; Zhou, Quan. / **Silicon capillary gripper with self-alignment capability**. 2011 IEEE International Conference on Robotics and Automation, ICRA 2011. 2011. pp. 4098-4103

Holopainen, Jussi ; Lucero, Andrés ; Saarenpää, Hannamari ; Nummenmaa, Timo ; Ali, Abdallah El ; Jokela, Tero. / **Social and privacy aspects of a system for collaborative public expression**. Proceedings of the 8th International Conference on Advances in Computer Entertainment Technology, ACE 2011. 2011.

Hoggan, Eve ; Trendafilov, Dari ; Ahmaniemi, Teemu ; Raisamo, Roope. / **Squeeze vs. tilt : A comparative study using continuous tactile feedback**. CHI EA 2011 - 29th Annual CHI Conference on Human Factors in Computing Systems, Conference Proceedings and Extended Abstracts. 2011. pp. 1309-1314

Khan, Subayal Aftab ; Saastamoinen, Jukka ; Tiensyrjä, Kari ; Nurmi, Jari. / **System level performance simulation of distributed GENESYS applications on multi-core platforms**. Proceedings - IEEE 9th International Conference on Dependable, Autonomic and Secure Computing, DASC 2011. 2011. pp. 313-320

Stenros, Jaakko ; Montola, Markus. / **The making of Nordic larp : Documenting a tradition of ephemeral co-creative play**. Proceedings of DiGRA 2011 Conference: Think Design Play. 2011.

Brumley, Billy Bob ; Jarvinen, Kimmo U. / **Conversion algorithms and implementations for koblitz curve cryptography**. In: IEEE Transactions on Computers. 2010 ; Vol. 59, No. 1. pp. 81-92.

Vafaei, Alaleh ; Aref, Mohammad M. ; Taghirad, Hamid D. / **Integrated controller for an over-constrained cable driven parallel manipulator : KNTU CDRPM**. Proceedings - IEEE International Conference on Robotics and Automation. 2010. pp. 650-655

Lavazza, Luigi ; Morasca, Sandro ; Taibi, Davide ; Tosi, Davide. / **Predicting OSS trustworthiness on the basis of elementary code assessment**. ESEM 2010 - Proceedings of the 2010 ACM-IEEE International Symposium on Empirical Software Engineering and Measurement. 2010.

Del Bianco, Vieri ; Lavazza, Luigi ; Morasca, Sandro ; Taibi, Davide ; Tosi, Davide. / **The QualiSPo approach to OSS product quality evaluation**. 3rd Int. Workshop on Emerging Trends in Free/Libre/Open Source Software Research and Development, FLOSS-3, in Conj. with the 32nd ACM/IEEE International Conference on Software Engineering, ICSE 2010. 2010. pp. 23-28

Jokela, Tero ; Väättäjä, Heli ; Koponen, Tiina. / **Mobile Journalist Toolkit : A field study on producing news articles with a mobile device**. MindTrek 2009 - 13th International Academic MindTrek Conference: Everyday Life in the Ubiquitous Era. 2009. pp. 45-52

Koskinen, Jukka A. ; Kelo, Tomi O. / **Pure e-learning course in information security**. Proceedings of SIN'09, Second International Conference on Security of Information and Networks, Famagusta, North Cyprus, October 6-10, 2009. editor / A. Elci. 2009. pp. 8-13

Morasca, Sandro ; Taibi, Davide ; Tosi, Davide. / **Towards certifying the testing process of open-source software : New challenges or old methodologies?**. Proceedings of the 2009 ICSE Workshop on Emerging Trends in Free/Libre/Open Source Software Research and Development, FLOSS 2009. 2009. pp. 25-30

Loloei, Azadeh Zarif ; Mohammadi Aref, Mohammad ; Taghirad, Hamid D. / **Wrench feasible workspace analysis of cable-driven parallel manipulators using LMI approach**. IEEE/ASME International Conference on Advanced Intelligent Mechatronics, AIM. 2009. pp. 1034-1039

Emmert-Streib, Frank ; Dehmert, Matthias ; Kilian, Jürgen. / **Classification of large graphs by a local tree decomposition**. Proceedings of the 2005 International Conference on Data Mining, DMIN'05. 2005. pp. 200-207

Mamykina, Lena ; Bardram, Jakob E. ; Korhonen, Ilkka ; Mynatt, Elizabeth ; Pratt, Wanda. / **HCI and homecare : Connecting families and clinicians**. Conference on Human Factors in Computing Systems - Proceedings. 2004. pp. 1715-1716

Korhonen, H. M E ; Heikkilä, Jussi ; Törnwall, Jon M. / **A simulation case study of production planning and control in printed wiring board manufacturing.** In: Winter Simulation Conference Proceedings. 2001 ; Vol. 2. pp. 844-847.