

Bedoustani, Y. B. ; Taghirad, H. D. ; Aref, M. M. / **Dynamics analysis of a redundant parallel manipulator driven by elastic cables**. 2008 10th International Conference on Control, Automation, Robotics and Vision, ICARCV 2008. 2008. pp. 536-542

Gholami, Pooneh ; Aref, Mohammad M. ; Taghirad, Hamid D. / **On the control of the KNTU CDRPM : A cable driven redundant parallel manipulator**. 2008 IEEE/RSJ International Conference on Intelligent Robots and Systems, IROS. 2008. pp. 2404-2409

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

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.

Lankinen, Jukka ; Kamarainen, Joni Kristian. / **Local feature based unsupervised alignment of object class images**. BMVC 2011 - Proceedings of the British Machine Vision Conference 2011. British Machine Vision Association, BMVA, 2011.

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

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.

Smith, Cameron ; Crook, Nigel ; Dobnik, Simon ; Charlton, Daniel ; Boye, Johan ; Pulman, Stephen ; Santos de la Camara, 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.

Boutellier, Jani ; Lundbom, Ismo ; Janhunen, Janne ; Ylimainen, Jori ; Hannuksela, Jari. / **Application-specific instruction processor for extracting local binary patterns**. DASIP 2012 - Proceedings of the 2012 Conference on Design and Architectures for Signal and Image Processing. 2012. pp. 82-89

Špakov, Oleg. / **Comparison of eye movement filters used in HCI**. Proceedings - ETRA 2012: Eye Tracking Research and Applications Symposium. 2012. pp. 281-284

Gizatdinova, Yulia ; Spakov, Oleg ; Surakka, Veikko. / **Face typing : Vision-based perceptual interface for hands-free text entry with a scrollable virtual keyboard**. 2012 IEEE Workshop on the Applications of Computer Vision, WACV 2012. 2012. pp. 81-87

Hyrskykari, Aulikki ; Istance, Howell ; Vickers, Stephen. / **Gaze gestures or dwell-based interaction?**. Proceedings - ETRA 2012: Eye Tracking Research and Applications Symposium. 2012. pp. 229-232

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

Kallioniemi, Pekka ; Turunen, Markku. / **Model for landmark highlighting in mobile web services**. Proceedings of the 11th International Conference on Mobile and Ubiquitous Multimedia, MUM 2012. 2012.

Heikkilä, Henna ; Rähä, Kari Jouko. / **Simple gaze gestures and the closure of the eyes as an interaction technique**. Proceedings - ETRA 2012: Eye Tracking Research and Applications Symposium. 2012. pp. 147-154

Istance, Howell ; Vickers, Stephen ; Hyrskykari, Aulikki. / **The validity of using non-representative users in gaze communication research.** Proceedings - ETRA 2012: Eye Tracking Research and Applications Symposium. 2012. pp. 233-236

Şahin, Erdem ; Onural, Levent. / **Scalar diffraction field calculation from curved surfaces via Gaussian beam decomposition.** In: Journal of the Optical Society of America A: Optics Image Science and Vision. 2012 ; Vol. 29, No. 7. pp. 1459-1469.

Iosifidis, Alexandros ; Tefas, Anastasios ; Pitas, Ioannis. / **Active classification for human action recognition.** 2013 IEEE International Conference on Image Processing, ICIP 2013 - Proceedings. 2013. pp. 3249-3253

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.

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

Betrouni, N. ; Colin, P. ; Puech, P. ; Villers, A. ; Mordon, S. / **An image guided treatment platform for prostate cancer photodynamic therapy.** 2013 35th Annual International Conference of the IEEE Engineering in Medicine and Biology Society, EMBC 2013. 2013. pp. 370-373

Şahin, Erdem ; Onural, Levent. / **Calculation of the scalar diffraction field from curved surfaces by decomposing the three-dimensional field into a sum of Gaussian beams.** In: Journal of the Optical Society of America A: Optics Image Science and Vision. 2013 ; Vol. 30, No. 3. pp. 527-536.

Kikuchi, Hisakazu ; Kataoka, S. ; Muramatsu, S. ; Huttunen, Heikki. / **Color-tone similarity of digital images.** 2013 IEEE International Conference on Image Processing, ICIP 2013 - Proceedings. 2013. pp. 393-397

Casale-Brunet, S. ; Bezati, E. ; Alberti, C. ; Roquier, G. ; Mattavelli, M. ; Janneck, J. W. ; Boutellier, J. / **Design space exploration and implementation of RVC-CAL applications using the TURNUS framework.** DASIP 2013 - Proceedings of the 2013 Conference on Design and Architectures for Signal and Image Processing. 2013. pp. 341-342

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.

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

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.

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

Sharmin, Selina ; Špakov, Oleg ; Rähä, 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 ; Ihanola, 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

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

Iosifidis, Alexandros ; Tefas, Anastasios ; Pitas, Ioannis. / **View-independent human action recognition based on multi-view action images and discriminant learning**. 2013 IEEE 11th IVMSP Workshop: 3D Image/Video Technologies and Applications, IVMSP 2013 - Proceedings. 2013.

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.

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.

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 ; Rantala, Jussi ; Majaranta, Päivi ; Isokoski, Poika ; Raisamo, Roope. / **Haptic feedback to gaze events**. Proceedings of the Symposium on Eye Tracking Research and Applications, ETRA 2014. Association for Computing Machinery, 2014. pp. 11-18

Špakov, Oleg ; Isokoski, Poika ; Majaranta, Päivi. / **Look and lean : Accurate head-assisted eye pointing**. Proceedings of the Symposium on Eye Tracking Research and Applications, ETRA 2014. Association for Computing Machinery, 2014. pp. 35-42

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).

Špakov, Oleg ; Gizatdinova, Yulia. / **Real-time hidden gaze point correction**. Proceedings of the Symposium on Eye Tracking Research and Applications, ETRA 2014. Association for Computing Machinery, 2014. pp. 291-294

Akkil, Deepak ; Isokoski, Poika ; Kangas, Jari ; Rantala, Jussi ; Raisamo, Roope. / **TraQuMe : A tool for measuring the gaze tracking quality**. Proceedings of the Symposium on Eye Tracking Research and Applications, ETRA 2014. Association for Computing Machinery, 2014. pp. 327-330

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.

Raitoharju, J. ; Zhang, H. ; Ozan, E. C. ; Waris, M. A. ; Faisal, M. ; Cao, G. ; Roininen, M. ; Ahmad, I. ; Shetty, R. ; Uhlmann, S. ; Samiee, K. ; Kiranyaz, S. ; Gabbouj, M. / **Tut MUVIS image retrieval system proposal for MSR-Bing challenge 2014**. IEEE International Conference on Multimedia and Expo, ICME 2014, Chengdu, China, July 14-18, 2014. Piscataway : Institute of Electrical and Electronics Engineers IEEE, 2014. pp. 1-6

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

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

Kim, Scott C. ; Bhattacharyya, Shuvra S. / **Implementation of a low-complexity low-latency arbitrary resampler on GPUs**. 2014 IEEE Dallas Circuits and Systems Conference: Enabling an Internet of Things - From Sensors to Servers, DCAS 2014. Institute of Electrical and Electronics Engineers Inc., 2014.

Iosifidis, Alexandros ; Tefas, Anastasios ; Pitas, Ioannis. / **Semi-supervised classification of human actions based on neural networks**. Proceedings - International Conference on Pattern Recognition. The Institute of Electrical and Electronics Engineers, Inc., 2014. pp. 1336-1341

Kertész, Csaba ; Turunen, Markku. / **Community driven artificial intelligence development for robotics**. Doctoral Consortium on Informatics in Control, Automation and Robotics, DCINCO 2015; in conjunction with the 12th International Conference on Informatics in Control, Automation and Robotics, ICINCO. SCITEPRESS, 2015. pp. 3-10

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

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.

Dutta, Rahul ; Friberg, Ari T. ; Genty, Goery ; Turunen, Jari. / **Two-time coherence of pulse trains and the integrated degree of temporal coherence**. In: Journal of the Optical Society of America A: Optics Image Science and Vision. 2015 ; Vol. 32, No. 9. pp. 1631-1637.

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.

Mademlis, Ioannis ; Iosifidis, Alexandros ; Tefas, Anastasios ; Nikolaidis, Nikos ; Pitas, Ioannis. / **Stereoscopic video description for human action recognition**. IEEE SSCI 2014 - 2014 IEEE Symposium Series on Computational Intelligence - CIMSIVP 2014: 2014 IEEE Symposium on Computational Intelligence for Multimedia, Signal and Vision Processing, Proceedings. The Institute of Electrical and Electronics Engineers, Inc., 2015.

Hukkanen, Jenni ; Astola, Pekka ; Tabus, Ioan. / **Lossless compression of regions-of-interest from retinal images**. EUVIP 2014 - 5th European Workshop on Visual Information Processing. The Institute of Electrical and Electronics Engineers, Inc., 2015.

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

Homayouni, Maryam ; Aflaki, Payman ; Hannuksela, Miska M. ; Gabbouj, Moncef. / **Asymmetric luminance based filtering for stereoscopic video compression**. 2014 International Conference on 3D Imaging (IC3D). IEEE, 2015.

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

Bugdayci Sansli, Döne ; Aminlou, Alireza ; Ugur, Kemal ; Hannuksela, Miska M. ; Gabbouj, Moncef. / **Improved weighted prediction based color gamut scalability in SHVC**. 2014 IEEE Visual Communications and Image Processing Conference, VCIP 2014. The Institute of Electrical and Electronics Engineers, Inc., 2015. pp. 201-204

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

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.

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

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

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.

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.

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

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

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

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.

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

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

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.

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.

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.

Rauhämäki, 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.

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.

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

Sorokin, M. ; Strokina, N. ; Eerola, T. ; Lensu, L. ; Karttunen, K. ; Kalviainen, H. / **Image-based characterization of the pulp flows**. In: Pattern Recognition and Image Analysis. 2016 ; Vol. 26, No. 3. pp. 630-637.

Zare, Alireza ; Kovacs, Peter Tamas ; Aminlou, Alireza ; Hannuksela, Miska M. ; Gotchev, Atanas. / **Decoding complexity reduction in projection-based light-field 3D displays using self-contained HEVC tiles**. 2016 3DTV-Conference: The True Vision - Capture, Transmission and Display of 3D Video, 3DTV-CON 2016. IEEE COMPUTER SOCIETY PRESS, 2016.

Helin, Petri ; Astola, Pekka ; Rao, Bhaskar ; Tabus, Ioan. / **Sparse modelling and predictive coding of subaperture images for lossless plenoptic image compression**. 2016 3DTV-Conference: The True Vision - Capture, Transmission and Display of 3D Video, 3DTV-CON 2016. IEEE COMPUTER SOCIETY PRESS, 2016.

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

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.

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.

Li, Lin ; Fanni, Tiziana ; Viitanen, Timo ; Xie, Renjie ; Palumbo, Francesca ; Raffo, Luigi ; Huttunen, Heikki ; Takala, Jarmo ; Bhattacharyya, Shuvra S. / **Low power design methodology for signal processing systems using lightweight dataflow techniques**. DASIP 2016 - Proceedings of the 2016 Conference on Design and Architectures for Signal and Image Processing. IEEE COMPUTER SOCIETY PRESS, 2017. pp. 82-89

Kara, Peter A. ; Kovacs, Peter T. ; Vagharshakyan, Suren ; Martini, Maria G. ; Barsi, Attila ; Balogh, Tibor ; Chuchvara, Aleksandra ; Chehaibi, Ahmed. / **The Effect of Light Field Reconstruction and Angular Resolution Reduction on the Quality of Experience**. 2016 12th International Conference on Signal-Image Technology & Internet-Based Systems (SITIS). IEEE, 2017. pp. 781-786

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

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.

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

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

Ito, Izumi ; Egiazarian, Karen. / **Full search equivalent fast block matching using orthonormal tree-structured haar transform**. ISPA 2017 - 10th International Symposium on Image and Signal Processing and Analysis. IEEE COMPUTER SOCIETY PRESS, 2017. pp. 177-182

Curcio, Igor D.D. ; Toukoma, Henri ; Naik, Deepa. / **Bandwidth reduction of omnidirectional viewport-dependent video streaming via subjective quality assessment**. AltMM 2017 - Proceedings of the 2nd International Workshop on Multimedia Alternate Realities, co-located with MM 2017. ACM, 2017. pp. 9-14

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

Jisha, Chandroth P. ; Alberucci, Alessandro. / **Paraxial light beams in structured anisotropic media**. In: Journal of the Optical Society of America A: Optics and Image Science, and Vision. 2017 ; Vol. 34, No. 11. pp. 2019-2024.

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.

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

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

Fakour-Sevom, Vida ; Guldogan, Esin ; Kämäräinen, Joni-Kristian. / **360 panorama super-resolution using deep convolutional networks**. VISIGRAPP 2018 - Proceedings of the 13th International Joint Conference on Computer Vision, Imaging and Computer Graphics Theory and Applications . Vol. 4 SCITEPRESS, 2018. pp. 159-165

Chen, Ke ; Zhang, Zhaoxiang. / **A Primal Neural Network for Online Equality-Constrained Quadratic Programming**. In: Cognitive Computation. 2018 ; Vol. 10, No. 2. pp. 381-388.

Kart, Ugur ; Kämäräinen, Joni Kristian ; Fan, Lixin ; Gabbouj, Moncef. / **Evaluation of visual object trackers on equirectangular panorama**. VISIGRAPP 2018 - Proceedings of the 13th International Joint Conference on Computer Vision, Imaging and Computer Graphics Theory and Applications . Vol. 5 SCITEPRESS, 2018. pp. 25-32

Yancheshmeh, Fatemeh Shokrollahi ; Chen, Ke ; Kämäräinen, Joni-Kristian. / **Hierarchical deformable part models for heads and tails**. VISIGRAPP 2018 - Proceedings of the 13th International Joint Conference on Computer Vision, Imaging and Computer Graphics Theory and Applications . Vol. 5 SCITEPRESS, 2018. pp. 45-55

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.

Ainasoja, Antti E. ; Hietanen, Antti ; Lankinen, Jukka ; Kämäräinen, Joni-Kristian. / **Keyframe-based video summarization with human in the loop**. VISIGRAPP 2018 - Proceedings of the 13th International Joint Conference on Computer Vision, Imaging and Computer Graphics Theory and Applications . Vol. 4 SCITEPRESS, 2018. pp. 287-296

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).

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

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

Linna, Marko ; Kannala, Juho ; Rahtu, Esa. / **Real-time human pose estimation with convolutional neural networks**. VISIGRAPP 2018 - Proceedings of the 13th International Joint Conference on Computer Vision, Imaging and Computer Graphics Theory and Applications. Vol. 5 SCITEPRESS, 2018. pp. 335-342

Viitanen, Timo ; Koskela, Matias ; Immonen, Kalle ; Mäkitalo, Markku ; Jääskeläinen, Pekka ; Takala, Jarmo. / **Sparse sampling for real-time ray tracing**. VISIGRAPP 2018 - Proceedings of the 13th International Joint Conference on Computer Vision, Imaging and Computer Graphics Theory and Applications . Vol. 1 SCITEPRESS, 2018. pp. 295-302

Valkonen, Mira ; Kartasalo, Kimmo ; Liimatainen, Kaisa ; Nykter, Matti ; Latonen, Leena ; Ruusuvuori, Pekka. / **Dual Structured Convolutional Neural Network with Feature Augmentation for Quantitative Characterization of Tissue Histology** . 2017 IEEE International Conference on Computer Vision Workshops, ICCVW 2017. IEEE, 2018. pp. 27-35

Melekhov, Iaroslav ; Ylioinas, Juha ; Kannala, Juho ; Rahtu, Esa. / **Image-Based Localization Using Hourglass Networks**. 2017 IEEE International Conference on Computer Vision Workshops, ICCVW 2017. IEEE, 2018. pp. 870-877

Lilja, Kari K. ; Palomäki, Jari. / **The use of advanced imaging technology in welfare technology solutions - Some ethical aspects**. 3DTV-CON 2017 - 3D True Vision v2: Research and Applications in Future 3D Media. IEEE, 2018. pp. 1-4

Ghaznavi-Youvalari, Ramin ; Hannuksela, Miska M. ; Aminlou, Alireza ; Gabbouj, Moncef. / **Viewport-dependent delivery schemes for stereoscopic panoramic video**. 3DTV-CON 2017 - 3D True Vision v2: Research and Applications in Future 3D Media. IEEE, 2018. pp. 1-4

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

Solin, Arno ; Cortés, Santiago ; Rahtu, Esa ; Kannala, Juho. / **PIVO : Probabilistic inertial-visual odometry for occlusion-robust navigation**. Proceedings - 2018 IEEE Winter Conference on Applications of Computer Vision, WACV 2018. IEEE, 2018. pp. 616-625

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.

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

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

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

Obaid, Mohammad ; Kaipainen, Kirsikka ; Ocnarescu, 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 ; Väätäjä, 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

Mäkinen, Jani ; Sahin, Erdem ; Gotchev, Atanas. / **Analysis of accommodation cues in holographic stereograms**. 2018 - 3DTV-Conference: The True Vision - Capture, Transmission and Display of 3D Video, 3DTV-CON 2018. IEEE, 2018.

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

Akpinar, Ugur ; Sahin, Erdem ; Gotchev, Atanas. / **Viewing simulation of integral imaging display based on wave optics**. 2018 - 3DTV-Conference: The True Vision - Capture, Transmission and Display of 3D Video, 3DTV-CON 2018. IEEE, 2018.

Salminen, Katri ; Rantala, Jussi ; Isokoski, Poika ; Lehtonen, Marko ; Müller, Philipp ; Karjalainen, Markus ; Väliäho, Jari ; Kontunen, Anton ; Nieminen, Ville ; Leivo, Joni ; Telembeci, Anca Andreea ; Lekkala, Jukka ; Kallio, Pasi ; Surakka, Veikko. / **Olfactory display prototype for presenting and sensing authentic and synthetic odors**. ICMI 2018 - Proceedings of the 2018 International Conference on Multimodal Interaction. ACM, 2018. pp. 73-77

Varsaluoma, Jari ; Väätäjä, 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 ; Väätäjä, 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

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 ; Väätäjä, 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

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

Mehrang, Saeed ; Jauhiainen, Milla ; Pietilä, Julia ; Puustinen, Juha ; Ruokolainen, Jari ; Nieminen, Hannu. / **Identification of Parkinson's Disease Utilizing a Single Self-recorded 20-step Walking Test Acquired by Smartphone's Inertial Measurement Unit**. 40th Annual International Conference of the IEEE Engineering in Medicine and Biology Society, EMBC 2018. Vol. 2018-July Institute of Electrical and Electronics Engineers Inc., 2018. pp. 2913-2916

Tarniceriu, Adrian ; Harju, Jarkko ; Yousefi, Zeinab Rezaei ; Vehkaoja, Antti ; Parak, Jakub ; Yli-Hankala, Arvi ; Korhonen, Ilkka. / **The Accuracy of Atrial Fibrillation Detection from Wrist Photoplethysmography. A Study on Post-Operative Patients**. 40th Annual International Conference of the IEEE Engineering in Medicine and Biology Society, EMBC 2018. Vol. 2018-July IEEE, 2018. pp. 4844-4847

Niemi, Juha ; Tanttu, Juha. / **Deep Learning Case Study for Automatic Bird Identification**. In: Applied Sciences (Switzerland). 2018 ; Vol. 8, No. 11.

Muravev, Anton ; Raitoharju, Jenni ; Gabbouj, Moncef. / **On the Layer Selection in Small-Scale Deep Networks**. 2018 7th European Workshop on Visual Information Processing (EUVIP). IEEE, 2018.

Sapio, Adrian ; Bhattacharyya, Shuvra S. ; Wolf, Marilyn. / **Efficient Solving of Markov Decision Processes on GPUs Using Parallelized Sparse Matrices**. 2018 Conference on Design and Architectures for Signal and Image Processing, DASIP 2018. IEEE COMPUTER SOCIETY PRESS, 2018. pp. 13-18 (Conference on Design and Architectures for Signal and Image Processing, DASIP).

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

Qian, Yanlin ; Pertuz, Said ; Nikkanen, Jarno ; Kämäräinen, Joni-Kristian ; Matas, Jiri. / **Revisiting gray pixel for statistical illumination estimation**. VISIGRAPP 2019 - Proceedings of the 14th International Joint Conference on Computer Vision, Imaging and Computer Graphics Theory and Applications. editor / Andreas Kerren ; Christophe Hurter ; Jose Braz. SCITEPRESS, 2019. pp. 36-46

Ainasoja, Antti E. ; Pertuz, Said ; Kämäräinen, Joni-Kristian. / **Smartphone teleoperation for self-balancing telepresence robots**. VISIGRAPP 2019 - Proceedings of the 14th International Joint Conference on Computer Vision, Imaging and Computer Graphics Theory and Applications. editor / Andreas Kerren ; Christophe Hurter ; Jose Braz. SCITEPRESS, 2019. pp. 561-568

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.

Melekhov, Iaroslav ; Tiulpin, Aleksei ; Sattler, Torsten ; Pollefeys, Marc ; Rahtu, Esa ; Kannala, Juho. / **DGC-Net : Dense geometric correspondence network**. 2019 IEEE Winter Conference on Applications of Computer Vision, WACV 2019. IEEE, 2019. pp. 1034-1042 (IEEE Winter Conference on Applications of Computer Vision).

Tavakoli, Hamed R. ; Rahtu, Esa ; Kannala, Juho ; Borji, Ali. / **Digging deeper into egocentric gaze prediction**. 2019 IEEE Winter Conference on Applications of Computer Vision, WACV 2019. IEEE, 2019. pp. 273-282 (IEEE Winter Conference on Applications of Computer Vision).

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

Rusu, Corneliu ; Astola, Jaakko. / **Input magnitude data setting in error-reduction algorithm for one-dimensional discrete phase retrieval problem**. ISSCS 2019 - International Symposium on Signals, Circuits and Systems. IEEE, 2019.

Gao, Yuan ; Koch, Reinhard ; Bregovic, Robert ; Gotchev, Atanas. / **Light field reconstruction using shearlet transform in tensorflow**. 2019 IEEE International Conference on Multimedia and Expo Workshops, ICMEW 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).

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

Yang, Dan ; Qian, Yanlin ; Cai, Dingding ; Yan, Song ; Kämäräinen, Joni-Kristian ; Chen, Ke. / **Visibility-Aware Part Coding for Vehicle Viewing Angle Estimation**. 9th International Conference on Information Science and Technology, ICIST 2019. IEEE, 2019. pp. 65-70

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.

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.

Räsänen, Okko ; Seshadri, Shreyas ; Karadayi, Julien ; Riebling, Eric ; Bunce, John ; Cristia, Alejandrina ; Metze, Florian ; Casillas, Marisa ; Rosemberg, 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.

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

Burova, Alisa ; Kelling, Chelsea ; Keskinen, Tuuli ; Hakulinen, Jaakko ; Kallioniemi, Pekka ; Väättäjä, 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).

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.

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.

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.

Zou, Nannan ; Zhang, Honglei ; Cricri, Francesco ; Tavakoli, Hamed R. ; Lainema, Jani ; Aksu, Emre ; Hannuksela, Miska ; Rahtu, Esa. / **End-to-end learning for video frame compression with self-attention**. Proceedings - 2020 IEEE/CVF Conference on Computer Vision and Pattern Recognition Workshops, CVPRW 2020. IEEE, 2020. pp. 580-584 (IEEE Computer Society Conference on Computer Vision and Pattern Recognition Workshops).

Iashin, Vladimir ; Rahtu, Esa. / **Multi-modal dense video captioning**. Proceedings - 2020 IEEE/CVF Conference on Computer Vision and Pattern Recognition Workshops, CVPRW 2020. IEEE, 2020. pp. 4117-4126 (IEEE Computer Society Conference on Computer Vision and Pattern Recognition Workshops).

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

- Lauri, Mikko ; Pajarinen, Joni ; Peters, Jan ; Frintrop, Simone. / **Multi-sensor next-best-view planning as matroid-constrained submodular maximization**. In: IEEE Robotics and Automation Letters. 2020 ; Vol. 5, No. 4. pp. 5323-5330.
- Genocchi, Barbara ; Cunha, Andre ; Jain, Soumil ; Hyttinen, Jari ; Lenk, Kerstin ; Ellingsrud, Ada Johanne. / **Parametric exploration of cellular swelling in a computational model of cortical spreading depression**. 42nd Annual International Conferences of the IEEE Engineering in Medicine and Biology Society: Enabling Innovative Technologies for Global Healthcare, EMBC 2020. IEEE, 2020. pp. 2491-2495 (Annual International Conference of the IEEE Engineering in Medicine and Biology Society).
- Pajarinen, Joni ; Arenz, Oleg ; Peters, Jan ; Neumann, Gerhard. / **Probabilistic approach to physical object disentangling**. In: IEEE Robotics and Automation Letters. 2020 ; Vol. 5, No. 4. pp. 5510-5517.
- 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
- 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
- Tavakoli, Hamed Rezazadegan ; Borji, Ali ; Kannala, Juho ; Rahtu, Esa. / **Deep audio-visual saliency : Baseline model and data**. Proceedings ETRA 2020 Short Papers - ACM Symposium on Eye Tracking Research and Applications, ETRA 2020. editor / Stephen N. Spencer. ACM, 2020.
- 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.
- Tripathy, Soumya ; Kannala, Juho ; Rahtu, Esa. / **ICface : Interpretable and controllable face reenactment using GANs**. 2020 IEEE Winter Conference on Applications of Computer Vision, WACV 2020. IEEE, 2020. pp. 3374-3383 (IEEE Winter Conference on Applications of Computer Vision).

Netzev, Metodi ; Angleraud, Alexandre ; Pieters, Roel. / **Soft robotic gripper with compliant cell stacks for industrial part handling**. In: IEEE Robotics and Automation Letters. 2020 ; Vol. 5, No. 4. pp. 6821-6828.