

- Bedoustani, Y. B., Taghirad, H. D., & Aref, M. M. (2008). Dynamics analysis of a redundant parallel manipulator driven by elastic cables. In *2008 10th International Conference on Control, Automation, Robotics and Vision, ICARCV 2008* (pp. 536-542). [4795575] <https://doi.org/10.1109/ICARCV.2008.4795575>
- Gholami, P., Aref, M. M., & Taghirad, H. D. (2008). On the control of the KNTU CDRPM: A cable driven redundant parallel manipulator. In *2008 IEEE/RSJ International Conference on Intelligent Robots and Systems, IROS* (pp. 2404-2409). [4650740] <https://doi.org/10.1109/IROS.2008.4650740>
- Špakov, O. (2011). Comparison of gaze-to-objects mapping algorithms. In *Proceedings of the 1st Conference on Novel Gaze-Controlled Applications, NGCA'11* [6] <https://doi.org/10.1145/1983302.1983308>
- Gizatdinova, Y., Surakka, V., Zhao, G., Mäkinen, E., & Raisamo, R. (2011). Facial expression classification based on local spatiotemporal edge and texture descriptors. In *Selected Papers from the Proceedings of the 7th International Conference on Methods and Techniques in Behavioral Research - Digital Edition, MB'10* [21] <https://doi.org/10.1145/1931344.1931365>
- Lankinen, J., & Kamarainen, J. K. (2011). Local feature based unsupervised alignment of object class images. In *BMVC 2011 - Proceedings of the British Machine Vision Conference 2011* British Machine Vision Association, BMVA. <https://doi.org/10.5244/C25.107>
- Hakonen, H., Hyrynsalmi, S., & Järvi, A. (2011). Reducing the number of unit tests with design by contract. In *Computer Systems and Technologies - 12th International Conference, CompSysTech'11 - Proceedings* (Vol. 578, pp. 161-166) <https://doi.org/10.1145/2023607.2023635>
- Holopainen, J., Lucero, A., Saarenpää, H., Nummenmaa, T., Ali, A. E., & Jokela, T. (2011). Social and privacy aspects of a system for collaborative public expression. In *Proceedings of the 8th International Conference on Advances in Computer Entertainment Technology, ACE 2011* [23] <https://doi.org/10.1145/2071423.2071452>
- Smith, C., Crook, N., Dobnik, S., Charlton, D., Boye, J., Pulman, S., ... Cavazza, M. (2011). Interaction strategies for an affective conversational agent. *Presence: Teleoperators and Virtual Environments*, 20(5), 395-411. https://doi.org/10.1162/PRES_a_00063
- Boutellier, J., Lundbom, I., Janhunen, J., Ylimäinen, J., & Hannuksela, J. (2012). Application-specific instruction processor for extracting local binary patterns. In *DASIP 2012 - Proceedings of the 2012 Conference on Design and Architectures for Signal and Image Processing* (pp. 82-89). [6385363]
- Špakov, O. (2012). Comparison of eye movement filters used in HCI. In *Proceedings - ETRA 2012: Eye Tracking Research and Applications Symposium* (pp. 281-284) <https://doi.org/10.1145/2168556.2168616>
- Gizatdinova, Y., Spakov, Ö., & Surakka, V. (2012). Face typing: Vision-based perceptual interface for hands-free text entry with a scrollable virtual keyboard. In *2012 IEEE Workshop on the Applications of Computer Vision, WACV 2012* (pp. 81-87). [6162997] <https://doi.org/10.1109/WACV.2012.6162997>
- Hyrskykari, A., Istance, H., & Vickers, S. (2012). Gaze gestures or dwell-based interaction? In *Proceedings - ETRA 2012: Eye Tracking Research and Applications Symposium* (pp. 229-232) <https://doi.org/10.1145/2168556.2168602>
- Kim, S. C., Plishker, W. L., Bhattacharyya, S. S., & Cavallaro, J. R. (2012). GPU-based acceleration of symbol timing recovery. In *DASIP 2012 - Proceedings of the 2012 Conference on Design and Architectures for Signal and Image Processing* (pp. 273-280). [6385393]
- Kallioniemi, P., & Turunen, M. (2012). Model for landmark highlighting in mobile web services. In *Proceedings of the 11th International Conference on Mobile and Ubiquitous Multimedia, MUM 2012* [25] <https://doi.org/10.1145/2406367.2406398>

- Heikkilä, H., & Rähkä, K. J. (2012). Simple gaze gestures and the closure of the eyes as an interaction technique. In *Proceedings - ETRA 2012: Eye Tracking Research and Applications Symposium* (pp. 147-154) <https://doi.org/10.1145/2168556.2168579>
- Istance, H., Vickers, S., & Hyrskykari, A. (2012). The validity of using non-representative users in gaze communication research. In *Proceedings - ETRA 2012: Eye Tracking Research and Applications Symposium* (pp. 233-236) <https://doi.org/10.1145/2168556.2168603>
- Şahin, E., & Onural, L. (2012). Scalar diffraction field calculation from curved surfaces via Gaussian beam decomposition. *Journal of the Optical Society of America A: Optics Image Science and Vision*, 29(7), 1459-1469. <https://doi.org/10.1364/JOSAA.29.001459>
- Iosifidis, A., Tefas, A., & Pitas, I. (2013). Active classification for human action recognition. In *2013 IEEE International Conference on Image Processing, ICIP 2013 - Proceedings* (pp. 3249-3253). [6738669] <https://doi.org/10.1109/ICIP.2013.6738669>
- Luhtala, M., Turunen, M., Hakulinen, J., & Keskinen, T. (2013). 'Aie-studio' - A pragmatist aesthetic approach for procedural sound design. In *Proceedings of the 8th Audio Mostly: A Conference on Interaction with Sound, AM 2013 - In Cooperation with ACM SIGCHI [7] Association for Computing Machinery*. <https://doi.org/10.1145/2544114.2544124>
- Kim, S. C., Plishker, W. L., & Bhattacharyya, S. S. (2013). An efficient GPU implementation of an arbitrary resampling polyphase channelizer. In *DASIP 2013 - Proceedings of the 2013 Conference on Design and Architectures for Signal and Image Processing* (pp. 231-238). [6661548]
- Betrouni, N., Colin, P., Puech, P., Villers, A., & Mordon, S. (2013). An image guided treatment platform for prostate cancer photodynamic therapy. In *2013 35th Annual International Conference of the IEEE Engineering in Medicine and Biology Society, EMBC 2013* (pp. 370-373). [6609514] <https://doi.org/10.1109/EMBC.2013.6609514>
- Şahin, E., & Onural, L. (2013). Calculation of the scalar diffraction field from curved surfaces by decomposing the three-dimensional field into a sum of Gaussian beams. *Journal of the Optical Society of America A: Optics Image Science and Vision*, 30(3), 527-536.
- Kikuchi, H., Kataoka, S., Muramatsu, S., & Huttunen, H. (2013). Color-tone similarity of digital images. In *2013 IEEE International Conference on Image Processing, ICIP 2013 - Proceedings* (pp. 393-397) <https://doi.org/10.1109/ICIP.2013.6738081>
- Casale-Brunet, S., Bezati, E., Alberti, C., Roquier, G., Mattavelli, M., Janneck, J. W., & Boutellier, J. (2013). Design space exploration and implementation of RVC-CAL applications using the TURNUS framework. In *DASIP 2013 - Proceedings of the 2013 Conference on Design and Architectures for Signal and Image Processing* (pp. 341-342). [6661566]
- Iosifidis, A., Tefas, A., & Pitas, I. (2013). Dynamic action recognition based on dynemes and Extreme Learning Machine. *Pattern Recognition Letters*, 34(15), 1890-1898. <https://doi.org/10.1016/j.patrec.2012.10.019>
- Ihantola, P., Helminen, J., & Karavirta, V. (2013). How to study programming on mobile touch devices - Interactive Python code exercises. In *Proceedings - 13th Koli Calling International Conference on Computing Education Research, Koli Calling 2013* (pp. 51-58) <https://doi.org/10.1145/2526968.2526974>
- Lebeda, K., Hadfield, S., Matas, J., & Bowden, R. (2013). Long-term tracking through failure cases. In *Proceedings - 2013 IEEE International Conference on Computer Vision Workshops, ICCVW 2013* (pp. 153-160). [6755891] Institute of Electrical and Electronics Engineers Inc.. <https://doi.org/10.1109/ICCVW.2013.26>
- Sand, A., & Rakkolainen, I. (2013). Mixed reality with multimodal head-mounted pico projector. In *Proceedings of the Virtual Reality International Conference on Laval Virtual, VRIC 2013* [14] <https://doi.org/10.1145/2466816.2466831>

Efimushkina, T., Egiazarian, K., & Gabbouj, M. (2013). Rate-distortion based reversible watermarking for JPEG images with quality factors selection. In *2013 4th European Workshop on Visual Information Processing, EUVIP 2013, Paris, France, 10.-12.2013* (pp. 94-99). [6623958] (European Workshop on Visual Information Processing). University of Paris 13.

Sharmin, S., Špakov, O., & Rähkä, K. J. (2013). Reading on-screen text with gaze-based auto-scrolling. In *Proceedings of the 2013 Conference on Eye Tracking South Africa, ETSA 2013* (pp. 24-31) <https://doi.org/10.1145/2509315.2509319>

Helminen, J., Ihantola, P., & Karavirta, V. (2013). Recording and analyzing in-browser programming sessions. In *Proceedings - 13th Koli Calling International Conference on Computing Education Research, Koli Calling 2013* (pp. 13-22) <https://doi.org/10.1145/2526968.2526970>

Kristan, M., Pflugfelder, R., Leonardis, A., Matas, J., Porikli, F., Čehovin, L., ... Niu, Z. (2013). The visual object tracking VOT2013 challenge results. In *Proceedings - 2013 IEEE International Conference on Computer Vision Workshops, ICCVW 2013* (pp. 98-111). [6755885] Institute of Electrical and Electronics Engineers Inc.. <https://doi.org/10.1109/ICCVW.2013.20>

Iosifidis, A., Tefas, A., & Pitas, I. (2013). View-independent human action recognition based on multi-view action images and discriminant learning. In *2013 IEEE 11th IVMSW Workshop: 3D Image/Video Technologies and Applications, IVMSW 2013 - Proceedings* <https://doi.org/10.1109/IVMSW.2013.6611931>

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

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

Mouaffo, A., Taibi, D., & Jamboti, K. (2014). Controlled experiments comparing fault-tree-based safety analysis techniques . In *18th International Conference on Evaluation and Assessment in Software Engineering, EASE 2014* [a46] Association for Computing Machinery (ACM). <https://doi.org/10.1145/2601248.2601255>

Bhattacharyya, S. S., Van Der Schaar, M., Atan, O., Tekin, C., & Sudusinghe, K. (2014). Data-driven stream mining systems for computer vision. In *Advances in Computer Vision and Pattern Recognition* (Vol. 68, pp. 249-264). (Advances in Computer Vision and Pattern Recognition; Vol. 68). SPRINGER-VERLAG LONDON LTD. https://doi.org/10.1007/978-3-319-09387-1_12

Kangas, J., Rantala, J., Majaranta, P., Isokoski, P., & Raisamo, R. (2014). Haptic feedback to gaze events. In *Proceedings of the Symposium on Eye Tracking Research and Applications, ETRA 2014* (pp. 11-18). Association for Computing Machinery. <https://doi.org/10.1145/2578153.2578154>

Špakov, O., Isokoski, P., & Majaranta, P. (2014). Look and lean: Accurate head-assisted eye pointing. In *Proceedings of the Symposium on Eye Tracking Research and Applications, ETRA 2014* (pp. 35-42). Association for Computing Machinery. <https://doi.org/10.1145/2578153.2578157>

Jarusriboonchai, P., Olsson, T., Ojala, J., & Väänänen-Vainio-Mattila, K. (2014). Opportunities and Challenges of Mobile Applications as "Tickets-to-Talk": A Scenario-Based User Study. In *Proceedings of the 13th International Conference on Mobile and Ubiquitous Multimedia, MUM2014, November 25-28, 2014, Melbourne, Australia* (pp. 89-97). (International conference on mobile and ubiquitous multimedia). New York, NY: ACM. <https://doi.org/10.1145/2677972.2677993>

Špakov, O., & Gizatdinova, Y. (2014). Real-time hidden gaze point correction. In *Proceedings of the Symposium on Eye Tracking Research and Applications, ETRA 2014* (pp. 291-294). Association for Computing Machinery. <https://doi.org/10.1145/2578153.2578200>

- Akkil, D., Isokoski, P., Kangas, J., Rantala, J., & Raisamo, R. (2014). TraQuMe: A tool for measuring the gaze tracking quality. In *Proceedings of the Symposium on Eye Tracking Research and Applications, ETRA 2014* (pp. 327-330). Association for Computing Machinery. <https://doi.org/10.1145/2578153.2578192>
- Eloranta, V-P. (2014). Patterns for controlling chaos in a startup. In *VikingPLoP 2014 Proceedings of the 8th Nordic Conference on Pattern Languages of Programs* (Vol. 2014-April, pp. 1-8). (ACM International Conference Proceeding Series). Association for Computing Machinery. <https://doi.org/10.1145/2676680.2676682>
- Leppänen, M. (2014). Two patterns for minimizing human resources in a startup. In *VikingPLoP 2014 Proceedings of the 8th Nordic Conference on Pattern Languages of Programs (VikingPLoP)* [4] ACM. <https://doi.org/10.1145/2676680.2676686>
- Raitoharju, J., Zhang, H., Ozan, E. C., Waris, M. A., Faisal, M., Cao, G., ... Gabbouj, M. (2014). Tut MUVIS image retrieval system proposal for MSR-Bing challenge 2014. In *IEEE International Conference on Multimedia and Expo, ICME 2014, Chengdu, China, July 14-18, 2014* (pp. 1-6). Piscataway: Institute of Electrical and Electronics Engineers IEEE. <https://doi.org/10.1109/ICMEW.2014.6890600>
- Iosifidis, A., Tefas, A., & Pitas, I. (2014). Discriminant Bag of Words based representation for human action recognition. *Pattern Recognition Letters*, 49, 185-192. <https://doi.org/10.1016/j.patrec.2014.07.011>
- Iosifidis, A., Tefas, A., & Pitas, I. (2014). Kernel reference discriminant analysis. *Pattern Recognition Letters*, 49, 85-91. <https://doi.org/10.1016/j.patrec.2014.06.013>
- Kultima, A., Nummenmaa, T., Tyni, H., Alha, K., & Mayra, F. (2014). Goofy Mus, grumpy Mur and dirty Muf: Talking playful seats with personalities. In *ACE 2014 - 11th Advances in Computer Entertainment Technology Conference, Workshops Proceedings* (Vol. 11-14-November-2014). [a9] Association for Computing Machinery. <https://doi.org/10.1145/2693787.2693790>
- Mäkelä, V., Heimonen, T., Luhtala, M., & Turunen, M. (2014). Information wall: Evaluation of a gesture-controlled public display. In *ACE 2014 - 11th Advances in Computer Entertainment Technology Conference, Proceedings* (Vol. 2014-November, pp. 228-231). Association for Computing Machinery. <https://doi.org/10.1145/2677972.2677998>
- Kim, S. C., & Bhattacharyya, S. S. (2014). Implementation of a low-complexity low-latency arbitrary resampler on GPUs. In *2014 IEEE Dallas Circuits and Systems Conference: Enabling an Internet of Things - From Sensors to Servers, DCAS 2014* [6965333] Institute of Electrical and Electronics Engineers Inc.. <https://doi.org/10.1109/DCAS.2014.6965333>
- Iosifidis, A., Tefas, A., & Pitas, I. (2014). Semi-supervised classification of human actions based on neural networks. In *Proceedings - International Conference on Pattern Recognition* (pp. 1336-1341). The Institute of Electrical and Electronics Engineers, Inc.. <https://doi.org/10.1109/ICPR.2014.239>
- Kertész, C., & Turunen, M. (2015). Community driven artificial intelligence development for robotics. In *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* (pp. 3-10). SCITEPRESS.
- Pertilä, P., & Nikunen, J. (2015). Distant speech separation using predicted time-frequency masks from spatial features. *Speech Communication*, 68, 97-106. <https://doi.org/10.1016/j.specom.2015.01.006>
- Dricot, A., Jung, J., Cagnazzo, M., Pesquet, B., Dufaux, F., Kovács, P., & Adhikarla, V. K. (2015). Subjective evaluation of Super Multi-View compressed contents on high-end light-field 3D displays. *Signal Processing: Image Communication*, 39 (Part B), 369-385. <https://doi.org/10.1016/j.image.2015.04.012>
- Dutta, R., Friberg, A. T., Genty, G., & Turunen, J. (2015). Two-time coherence of pulse trains and the integrated degree of temporal coherence. *Journal of the Optical Society of America A: Optics Image Science and Vision*, 32(9), 1631-1637. <https://doi.org/10.1364/JOSAA.32.001631>

Ponomarenko, N., Jin, L., Ieremeiev, O., Lukin, V., Egiazarian, K., Astola, J., ... Jay Kuo, C. C. (2015). Image database TID2013: Peculiarities, results and perspectives. *Signal Processing: Image Communication*, 30, 57-77. <https://doi.org/10.1016/j.image.2014.10.009>

Mademlis, I., Iosifidis, A., Tefas, A., Nikolaidis, N., & Pitas, I. (2015). Stereoscopic video description for human action recognition. In *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.. <https://doi.org/10.1109/CIMSIVP.2014.7013263>

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

Aflaki, P., Hannuksela, M. M., & Gabbouj, M. (2015). Adaptive spatial resolution selection for stereoscopic video compression with MV-HEVC: A frequency based approach. In *2014 IEEE International Symposium on Multimedia, ISM 2014, 10-12 Dec. 2014, Taichung* (pp. 267-270). The Institute of Electrical and Electronics Engineers, Inc.. <https://doi.org/10.1109/ISM.2014.11>

Homayouni, M., Aflaki, P., Hannuksela, M. M., & Gabbouj, M. (2015). Asymmetrie luminance based filtering for stereoscopic video compression. In *2014 International Conference on 3D Imaging (IC3D) IEEE*. <https://doi.org/10.1109/IC3D.2014.7032577>

Cricri, F., Mate, S., Curcio, I. D. D., & Gabbouj, M. (2015). Salient event detection in basketball mobile videos. In *Proceedings - 2014 IEEE International Symposium on Multimedia, ISM 2014* (pp. 63-70). [7032995] The Institute of Electrical and Electronics Engineers, Inc.. <https://doi.org/10.1109/ISM.2014.67>

Bugdayci Sansli, D., Aminlou, A., Ugur, K., Hannuksela, M. M., & Gabbouj, M. (2015). Improved weighted prediction based color gamut scalability in SHVC. In *2014 IEEE Visual Communications and Image Processing Conference, VCIP 2014* (pp. 201-204). [7051539] The Institute of Electrical and Electronics Engineers, Inc.. <https://doi.org/10.1109/VCIP.2014.7051539>

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

Iosifidis, A., Marami, E., Tefas, A., Pitas, I., & Lyroudia, K. (2015). The MOBISERV-AIIA eating and drinking multi-view database for vision-based assisted living. *Journal of Information Hiding and Multimedia Signal Processing*, 6(2), 254-273.

Rindell, K., Hyrynsalmi, S., & Leppänen, V. (2015). A comparison of security assurance support of agile software development methods. In *Computer Systems and Technologies - 16th International Conference, CompSysTech 2015: Proceedings* (Vol. 1008, pp. 61-68). Association for Computing Machinery. <https://doi.org/10.1145/2812428.2812431>

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

Leppänen, M., & Hokkanen, L. (2015). Four patterns for internal startups. In *Proceedings of the 20th European Conference on Pattern Languages of Programs, EuroPLoP 2015* [a5] ACM. <https://doi.org/10.1145/2855321.2855327>

Hokkanen, L., & Leppänen, M. (2015). Three patterns for user involvement in startups. In *Proceedings of the 20th European Conference on Pattern Languages of Programs, EuroPLoP 2015* [a51] ACM. <https://doi.org/10.1145/2855321.2855373>

Hirvonen, J., & Kallio, P. (2015). Automatic image-based detection and inspection of paper fibres for grasping. *IET Computer Vision*, 9(4), 588-594. <https://doi.org/10.1049/iet-cvi.2014.0416>

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

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

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

Nummenmaa, T., Tyni, H., Kultima, A., Alha, K., & Holopainen, J. (2015). Need to touch, wonder of discovery, and social capital: Experiences with interactive playful seats. In *ACE 2015 - 12th Advances in Computer Entertainment Technology Conference, Proceedings* (Vol. 16-19-November-2015). [10] Association for Computing Machinery. <https://doi.org/10.1145/2832932.2832959>

Jumisko-Pyykkö, S., Markopoulos, P., & Hannuksela, M. M. (2015). Who is moving - User or device? Experienced quality of mobile 3D video in vehicles. In *ACE 2015 - 12th Advances in Computer Entertainment Technology Conference, Proceedings* [13] ACM. <https://doi.org/10.1145/2832932.2832948>

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

Sarjanoja, S., Boutellier, J., & Hannuksela, J. (2015). BM3D image denoising using heterogeneous computing platforms. In *DASIP 2015 - Proceedings of the 2015 Conference on Design and Architectures for Signal and Image Processing* (Vol. 2015-December). [7367257] IEEE COMPUTER SOCIETY PRESS. <https://doi.org/10.1109/DASIP.2015.7367257>

Mehta, R., & Egiazarian, K. (2016). Dominant Rotated Local Binary Patterns (DRLBP) for texture classification. *Pattern Recognition Letters*, *71*, 16-22. <https://doi.org/10.1016/j.patrec.2015.11.019>

Foi, A., & Boracchi, G. (2016). Foveated Nonlocal Self-Similarity. *International Journal of Computer Vision*, *120*(1), 78-110. <https://doi.org/10.1007/s11263-016-0898-1>

Strokina, N., Matas, J., Eerola, T., Lensu, L., & Kälviäinen, H. (2016). Detection of bubbles as concentric circular arrangements. *Machine Vision and Applications*, *27*(3), 387-396. <https://doi.org/10.1007/s00138-016-0749-7>

Helenius, M., Kettunen, P., & Frank, L. (2016). Learnings from the Finnish game industry. In *Proceedings of the 10th Travelling Conference on Pattern Languages of Programs, VikingPLoP 2016* [a12] ACM. <https://doi.org/10.1145/3022636.3022648>

Rauhämäki, J. (2016). Patterns for safety system bus architecture. In *Proceedings of the 10th Travelling Conference on Pattern Languages of Programs, VikingPLoP 2016* [a4] ACM. <https://doi.org/10.1145/3022636.3022640>

Leppänen, M., & Hokkanen, L. (2016). Patterns for subsidiaries as innovation tools. In *Proceedings of the 10th Travelling Conference on Pattern Languages of Programs, VikingPLoP 2016* [a7] ACM. <https://doi.org/10.1145/3022636.3022643>

Ruohonen, J., Hyrynsalmi, S., & Leppänen, V. (2016). Exploring the use of deprecated PHP releases in the wild internet: Still a LAMP issue? In *6th International Conference on Web Intelligence, Mining and Semantics, WIMS 2016* [26] Association for Computing Machinery. <https://doi.org/10.1145/2912845.2912851>

Ahti, V., Hyrynsalmi, S., & Nevalainen, O. (2016). An evaluation framework for cross-platform mobile app development tools: A case analysis of adobe PhoneGap framework. In *Computer Systems and Technologies 17th International Conference, CompSysTech 2016 - Proceedings* (Vol. 1164, pp. 41-48). Association for Computing Machinery. <https://doi.org/10.1145/2983468.2983484>

Hosseinzadeh, S., Rauti, S., Laurén, S., Mäkelä, J. M., Holvitie, J., Hyrynsalmi, S., & Leppänen, V. (2016). A survey on aims and environments of diversification and obfuscation in software security. In *Computer Systems and Technologies 17th International Conference, CompSysTech 2016 - Proceedings* (Vol. 1164, pp. 113-120). Association for Computing Machinery. <https://doi.org/10.1145/2983468.2983479>

Sorokin, M., Strokina, N., Eerola, T., Lensu, L., Karttunen, K., & Kalviainen, H. (2016). Image-based characterization of the pulp flows. *Pattern Recognition and Image Analysis*, 26(3), 630-637. <https://doi.org/10.1134/S1054661816030196>

Zare, A., Kovacs, P. T., Aminlou, A., Hannuksela, M. M., & Gotchev, A. (2016). Decoding complexity reduction in projection-based light-field 3D displays using self-contained HEVC tiles. In *2016 3DTV-Conference: The True Vision - Capture, Transmission and Display of 3D Video, 3DTV-CON 2016* IEEE COMPUTER SOCIETY PRESS. <https://doi.org/10.1109/3DTV.2016.7548965>

Helin, P., Astola, P., Rao, B., & Tabus, I. (2016). Sparse modelling and predictive coding of subaperture images for lossless plenoptic image compression. In *2016 3DTV-Conference: The True Vision - Capture, Transmission and Display of 3D Video, 3DTV-CON 2016* IEEE COMPUTER SOCIETY PRESS. <https://doi.org/10.1109/3DTV.2016.7548953>

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

Nanni, L., Lumini, A., dos Santos, F. L. C., Paci, M., & Hyttinen, J. (2016). Ensembles of dense and dense sampling descriptors for the HEp-2 cells classification problem. *Pattern Recognition Letters*, 82, 28-35. <https://doi.org/10.1016/j.patrec.2016.01.026>

Babahajiani, P., Fan, L., Kämäräinen, J-K., & Gabbouj, M. (2017). Urban 3D segmentation and modelling from street view images and LiDAR point clouds. *Machine Vision and Applications*, 28(7), 679-694. <https://doi.org/10.1007/s00138-017-0845-3>

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

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

Bahrudeen, M. N. M., Startceva, S., & Ribeiro, A. S. (2017). Effects of extrinsic noise are promoter kinetics dependent. In *Proceedings of the 2017 9th International Conference on Bioinformatics and Biomedical Technology, ICBBT 2017* (pp. 44-47). ACM. <https://doi.org/10.1145/3093293.3093295>

Taibi, D., Lenarduzzi, V., Pahl, C., & Janes, A. (2017). Microservices in agile software development: A workshop-based study into issues, advantages, and disadvantages. In *Proceedings of the XP2017 Scientific Workshops, XP 2017* (Vol. Part F129907). [a23] Association for Computing Machinery. <https://doi.org/10.1145/3120459.3120483>

Taibi, D., Lenarduzzi, V., Ahmad, M. O., & Liukkunen, K. (2017). Comparing communication effort within the scrum, scrum with Kanban, XP, and Banana development processes. In *Proceedings of the 21st International Conference on Evaluation and Assessment in Software Engineering, EASE 2017* (Vol. Part F128635, pp. 258-263). Association for Computing Machinery. <https://doi.org/10.1145/3084226.3084270>

Taibi, D., Lenarduzzi, V., Diebold, P., & Lunesu, I. (2017). Operationalizing the experience factory for effort estimation in agile processes. In *Proceedings of the 21st International Conference on Evaluation and Assessment in Software Engineering, EASE 2017* (Vol. Part F128635, pp. 31-40). Association for Computing Machinery. <https://doi.org/10.1145/3084226.3084240>

- Mitchell, R., & Olsson, T. (2017). Barriers for bridging interpersonal gaps: Three inspirational design patterns for increasing collocated social interaction. In *C&T 2017 - 8th International Conference on Communities and Technologies, Conference Proceedings* (pp. 2-10). ACM. <https://doi.org/10.1145/3083671.3083697>
- Ito, I., & Egiazarian, K. (2017). Full search equivalent fast block matching using orthonormal tree-structured haar transform . In *ISPA 2017 - 10th International Symposium on Image and Signal Processing and Analysis* (pp. 177-182). IEEE COMPUTER SOCIETY PRESS. <https://doi.org/10.1109/ISPA.2017.8073591>
- Curcio, I. D. D., Toukoma, H., & Naik, D. (2017). Bandwidth reduction of omnidirectional viewport-dependent video streaming via subjective quality assessment. In *AltMM 2017 - Proceedings of the 2nd International Workshop on Multimedia Alternate Realities, co-located with MM 2017* (pp. 9-14). ACM. <https://doi.org/10.1145/3132361.3132364>
- Iosifidis, A., Tefas, A., Pitas, I., & Gabbouj, M. (2017). Big Media Data Analysis. *Signal Processing: Image Communication* , 59, 105-108. <https://doi.org/10.1016/j.image.2017.10.004>
- Jisha, C. P., & Alberucci, A. (2017). Paraxial light beams in structured anisotropic media. *Journal of the Optical Society of America A: Optics and Image Science, and Vision*, 34(11), 2019-2024. <https://doi.org/10.1364/JOSAA.34.002019>
- Bezzateev, S., Afanasyeva, A., Voloshina, N., & Ometov, A. (2017). Multi-factor authentication for wearables: Configuring system parameters with risk function. In *Proceedings of the 2nd International Conference on Advanced Wireless Information, Data, and Communication Technologies, AWICT 2017* ACM. <https://doi.org/10.1145/3231830.3231834>
- Thanh Tran, D., Gabbouj, M., & Iosifidis, A. (2017). Multilinear class-specific discriminant analysis. *Pattern Recognition Letters*, 100, 131-136. <https://doi.org/10.1016/j.patrec.2017.10.027>
- Katkovnik, V., Ponomarenko, M., & Egiazarian, K. (2017). Sparse approximations in complex domain based on BM3D modeling. *Signal Processing*, 141, 96-108. <https://doi.org/10.1016/j.sigpro.2017.05.032>
- Fakour-Sevom, V., Guldogan, E., & Kämäräinen, J-K. (2018). 360 panorama super-resolution using deep convolutional networks. In *VISIGRAPP 2018 - Proceedings of the 13th International Joint Conference on Computer Vision, Imaging and Computer Graphics Theory and Applications* (Vol. 4, pp. 159-165). SCITEPRESS. <https://doi.org/10.5220/0006618901590165>
- Chen, K., & Zhang, Z. (2018). A Primal Neural Network for Online Equality-Constrained Quadratic Programming. *Cognitive Computation*, 10(2), 381-388. <https://doi.org/10.1007/s12559-017-9510-4>
- Kart, U., Kämäräinen, J. K., Fan, L., & Gabbouj, M. (2018). Evaluation of visual object trackers on equirectangular panorama. In *VISIGRAPP 2018 - Proceedings of the 13th International Joint Conference on Computer Vision, Imaging and Computer Graphics Theory and Applications* (Vol. 5, pp. 25-32). SCITEPRESS. <https://doi.org/10.5220/0006526200250032>
- Yancheshmeh, F. S., Chen, K., & Kämäräinen, J-K. (2018). Hierarchical deformable part models for heads and tails. In *VISIGRAPP 2018 - Proceedings of the 13th International Joint Conference on Computer Vision, Imaging and Computer Graphics Theory and Applications* (Vol. 5, pp. 45-55). SCITEPRESS. <https://doi.org/10.5220/0006532700450055>
- Rubel, O., Lukin, V., Abramov, S., Vozel, B., Pogrebnyak, O., & Egiazarian, K. (2018). Is Texture Denoising Efficiency Predictable? *International Journal of Pattern Recognition and Artificial Intelligence*, 32(1), [1860005]. <https://doi.org/10.1142/S0218001418600054>
- Ainasoja, A. E., Hietanen, A., Lankinen, J., & Kämäräinen, J-K. (2018). Keyframe-based video summarization with human in the loop. In *VISIGRAPP 2018 - Proceedings of the 13th International Joint Conference on Computer Vision, Imaging and Computer Graphics Theory and Applications* (Vol. 4, pp. 287-296). SCITEPRESS. <https://doi.org/10.5220/0006619202870296>

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

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

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

Linna, M., Kannala, J., & Rahtu, E. (2018). Real-time human pose estimation with convolutional neural networks. In *VISIGRAPP 2018 - Proceedings of the 13th International Joint Conference on Computer Vision, Imaging and Computer Graphics Theory and Applications* (Vol. 5, pp. 335-342). SCITEPRESS. <https://doi.org/10.5220/0006624403350342>

Viitanen, T., Koskela, M., Immonen, K., Mäkitalo, M., Jääskeläinen, P., & Takala, J. (2018). Sparse sampling for real-time ray tracing. In *VISIGRAPP 2018 - Proceedings of the 13th International Joint Conference on Computer Vision, Imaging and Computer Graphics Theory and Applications* (Vol. 1, pp. 295-302). SCITEPRESS. <https://doi.org/10.5220/0006655802950302>

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

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

Lilja, K. K., & Palomäki, J. (2018). The use of advanced imaging technology in welfare technology solutions - Some ethical aspects. In *3DTV-CON 2017 - 3D True Vision v2: Research and Applications in Future 3D Media* (pp. 1-4). IEEE. <https://doi.org/10.1109/3DTV.2017.8280396>

Ghaznavi-Youvalari, R., Hannuksela, M. M., Aminlou, A., & Gabbouj, M. (2018). Viewport-dependent delivery schemes for stereoscopic panoramic video. In *3DTV-CON 2017 - 3D True Vision v2: Research and Applications in Future 3D Media* (pp. 1-4). IEEE. <https://doi.org/10.1109/3DTV.2017.8280404>

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

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

Ylinen, M., & Pekkola, S. (2018). Looking for a five-legged sheep: Identifying enterprise architects' skills and competencies. In *Proceedings of the 19th Annual International Conference on Digital Government Research: Governance in the Data Age, DG.O 2018 [a58]* ACM. <https://doi.org/10.1145/3209281.3209353>

Sjöblom, M., Hassan, L., Macey, J., Törhönen, M., & Hamari, J. (2018). Liking the game: How can spectating motivations influence social media usage at live esports events? In *Proceedings of the 9th International Conference on Social Media and Society, SMSociety 2018* (pp. 160-167). ACM. <https://doi.org/10.1145/3217804.3217908>

- Solin, A., Cortes, S., Rahtu, E., & Kannala, J. (2018). Inertial Odometry on Handheld Smartphones. In *2018 21st International Conference on Information Fusion, FUSION 2018* (pp. 1361-1368). [8455482] IEEE. <https://doi.org/10.23919/ICIF.2018.8455482>
- Rastorgueva-Foi, E., Costa, M., Koivisto, M., Leppänen, K., & Valkama, M. (2018). User Positioning in mmW 5G Networks Using Beam-RSRP Measurements and Kalman Filtering. In *2018 21st International Conference on Information Fusion, FUSION 2018* (pp. 1150-1156). [8455289] IEEE. <https://doi.org/10.23919/ICIF.2018.8455289>
- Obaid, M., Kaipainen, K., Ocnareescu, I., & Ahtinen, A. (2018). Designing for experiences with socially interactive robots. In *NordiCHI 2018: Revisiting the Life Cycle - Proceedings of the 10th Nordic Conference on Human-Computer Interaction* (pp. 948-951). ACM. <https://doi.org/10.1145/3240167.3240257>
- Aspling, F., Juhlin, O., & Vääätäjä, H. (2018). Understanding animals: A critical challenge in ACI. In *NordiCHI 2018: Revisiting the Life Cycle - Proceedings of the 10th Nordic Conference on Human-Computer Interaction* (pp. 148-160). ACM. <https://doi.org/10.1145/3240167.3240226>
- Mäkinen, J., Sahin, E., & Gotchev, A. (2018). Analysis of accommodation cues in holographic stereograms. In *2018 - 3DTV-Conference: The True Vision - Capture, Transmission and Display of 3D Video, 3DTV-CON 2018* [8478586] IEEE. <https://doi.org/10.1109/3DTV.2018.8478586>
- Raitoharju, J., Riabchenko, E., Ahmad, I., Iosifidis, A., Gabbouj, M., Kiranyaz, S., ... Meissner, K. (2018). Benchmark database for fine-grained image classification of benthic macroinvertebrates. *Image and Vision Computing, 78*, 73-83. <https://doi.org/10.1016/j.imavis.2018.06.005>
- Akpınar, U., Sahin, E., & Gotchev, A. (2018). Viewing simulation of integral imaging display based on wave optics. In *2018 - 3DTV-Conference: The True Vision - Capture, Transmission and Display of 3D Video, 3DTV-CON 2018* [8478568] IEEE. <https://doi.org/10.1109/3DTV.2018.8478568>
- Salminen, K., Rantala, J., Isokoski, P., Lehtonen, M., Müller, P., Karjalainen, M., ... Surakka, V. (2018). Olfactory display prototype for presenting and sensing authentic and synthetic odors. In *ICMI 2018 - Proceedings of the 2018 International Conference on Multimodal Interaction* (pp. 73-77). ACM. <https://doi.org/10.1145/3242969.3242999>
- Varsaluoma, J., Vääätäjä, H., Heimonen, T., Tiitinen, K., Hakulinen, J., Turunen, M., & Nieminen, H. (2018). Guidelines for development and evaluation of usage data analytics tools for human-machine interactions with industrial manufacturing systems. In *Mindtrek 2018 - Proceedings of the 22nd International Academic Mindtrek Conference* (pp. 172-181). ACM. <https://doi.org/10.1145/3275116.3275138>
- Kelling, C., Karhu, J., Kauhanen, O., Turunen, M., Vääätäjä, H., & Lindqvist, V. (2018). Implications of audio and narration in the user experience design of virtual reality. In *Mindtrek 2018 - Proceedings of the 22nd International Academic Mindtrek Conference* (pp. 258-261). ACM. <https://doi.org/10.1145/3275116.3275153>
- Ratia, M., Myllärniemi, J., & Helander, N. (2018). Robotic process automation - Creating value by digitalizing work in the private healthcare? In *Mindtrek 2018 - Proceedings of the 22nd International Academic Mindtrek Conference* (pp. 222-227). ACM. <https://doi.org/10.1145/3275116.3275129>
- Luoto, A. (2018). Systematic literature review on user logging in virtual reality. In *Mindtrek 2018 - Proceedings of the 22nd International Academic Mindtrek Conference* (pp. 110-117). ACM. <https://doi.org/10.1145/3275116.3275123>
- Burova, A., Kelling, C., Hakulinen, J., Kallioniemi, P., Keskinen, T., Turunen, M., & Vääätäjä, H. (2018). The Finnish you – An interactive storytelling application for an airport environment. In *Mindtrek 2018 - Proceedings of the 22nd International Academic Mindtrek Conference* (pp. 182-191). ACM. <https://doi.org/10.1145/3275116.3275142>

- Tripathy, S. R., Chakravarty, K., & Sinha, A. (2018). Eigen Posture Based Fall Risk Assessment System Using Kinect. In *40th Annual International Conference of the IEEE Engineering in Medicine and Biology Society, EMBC 2018* (Vol. 2018-July, pp. 1-4). [8513263] IEEE. <https://doi.org/10.1109/EMBC.2018.8513263>
- Mehrang, S., Jauhiainen, M., Pietilä, J., Puustinen, J., Ruokolainen, J., & Nieminen, H. (2018). Identification of Parkinson's Disease Utilizing a Single Self-recorded 20-step Walking Test Acquired by Smartphone's Inertial Measurement Unit. In *40th Annual International Conference of the IEEE Engineering in Medicine and Biology Society, EMBC 2018* (Vol. 2018-July, pp. 2913-2916). [8512921] Institute of Electrical and Electronics Engineers Inc.. <https://doi.org/10.1109/EMBC.2018.8512921>
- Tarniceriu, A., Harju, J., Yousefi, Z. R., Vehkaoja, A., Parak, J., Yli-Hankala, A., & Korhonen, I. (2018). The Accuracy of Atrial Fibrillation Detection from Wrist Photoplethysmography. A Study on Post-Operative Patients. In *40th Annual International Conference of the IEEE Engineering in Medicine and Biology Society, EMBC 2018* (Vol. 2018-July, pp. 4844-4847). [8513197] IEEE. <https://doi.org/10.1109/EMBC.2018.8513197>
- Niemi, J., & Tanntu, J. (2018). Deep Learning Case Study for Automatic Bird Identification. *Applied Sciences (Switzerland)*, 8(11), [2089]. <https://doi.org/10.3390/app8112089>
- Muravev, A., Raitoharju, J., & Gabbouj, M. (2018). On the Layer Selection in Small-Scale Deep Networks. In *2018 7th European Workshop on Visual Information Processing (EUVIP)* IEEE. <https://doi.org/10.1109/EUVIP.2018.8611738>
- Sapio, A., Bhattacharyya, S. S., & Wolf, M. (2018). Efficient Solving of Markov Decision Processes on GPUs Using Parallelized Sparse Matrices. In *2018 Conference on Design and Architectures for Signal and Image Processing, DASIP 2018* (pp. 13-18). (Conference on Design and Architectures for Signal and Image Processing, DASIP). IEEE COMPUTER SOCIETY PRESS. <https://doi.org/10.1109/DASIP.2018.8596969>
- Luoto, A. (2019). Log analysis of 360-degree video users via MQTT. In *ICGDA 2019: Proceedings of the 2019 2nd International Conference on Geoinformatics and Data Analysis* (pp. 130-137). ACM. <https://doi.org/10.1145/3318236.3318248>
- Qian, Y., Pertuz, S., Nikkanen, J., Kämäräinen, J-K., & Matas, J. (2019). Revisiting gray pixel for statistical illumination estimation. In A. Kerren, C. Hurter, & J. Braz (Eds.), *VISIGRAPP 2019 - Proceedings of the 14th International Joint Conference on Computer Vision, Imaging and Computer Graphics Theory and Applications* (pp. 36-46). SCITEPRESS. <https://doi.org/10.5220/0007406900360046>
- Ainasoja, A. E., Pertuz, S., & Kämäräinen, J-K. (2019). Smartphone teleoperation for self-balancing telepresence robots. In A. Kerren, C. Hurter, & J. Braz (Eds.), *VISIGRAPP 2019 - Proceedings of the 14th International Joint Conference on Computer Vision, Imaging and Computer Graphics Theory and Applications* (pp. 561-568). SCITEPRESS. <https://doi.org/10.5220/0007406405610568>
- Cai, D., Chen, K., Qian, Y., & Kämäräinen, J-K. (2019). Convolutional low-resolution fine-grained classification. *Pattern Recognition Letters*, 119, 166-171. <https://doi.org/10.1016/j.patrec.2017.10.020>
- Melekhov, I., Tiulpin, A., Sattler, T., Pollefeys, M., Rahtu, E., & Kannala, J. (2019). DGC-Net: Dense geometric correspondence network. In *2019 IEEE Winter Conference on Applications of Computer Vision, WACV 2019* (pp. 1034-1042). (IEEE Winter Conference on Applications of Computer Vision). IEEE. <https://doi.org/10.1109/WACV.2019.00115>
- Tavakoli, H. R., Rahtu, E., Kannala, J., & Borji, A. (2019). Digging deeper into egocentric gaze prediction. In *2019 IEEE Winter Conference on Applications of Computer Vision, WACV 2019* (pp. 273-282). (IEEE Winter Conference on Applications of Computer Vision). IEEE. <https://doi.org/10.1109/WACV.2019.00035>
- Mitchell, R., & Olsson, T. (2019). Facilitating the first move: Exploring inspirational design patterns for aiding initiation of social encounters. In H. Tellioglu, & F. Cech (Eds.), *C&T 2019 - 9th International Conference on Communities and Technologies, Conference Proceedings* (pp. 283-294). ACM. <https://doi.org/10.1145/3328320.3328396>

Rusu, C., & Astola, J. (2019). Input magnitude data setting in error-reduction algorithm for one-dimensional discrete phase retrieval problem. In *ISSCS 2019 - International Symposium on Signals, Circuits and Systems* [8801743] IEEE. <https://doi.org/10.1109/ISSCS.2019.8801743>

Gao, Y., Koch, R., Bregovic, R., & Gotchev, A. (2019). Light field reconstruction using shearlet transform in tensorflow. In *2019 IEEE International Conference on Multimedia and Expo Workshops, ICMEW 2019* IEEE. <https://doi.org/10.1109/ICMEW.2019.00116>

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

Zare, M., Huova, M., Visa, A., & Launis, S. (2019). Real-time online drilling vibration analysis using data mining. In *Proceedings of the 2019 2nd International Conference on Data Science and Information Technology, DSIT 2019* (pp. 175-180). ACM. <https://doi.org/10.1145/3352411.3352439>

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

Lu, C., Peltonen, J., & Nummenmaa, T. (2019). Game postmortems vs. developer Reddit AMAs: Computational analysis of developer communication. In F. Khosmood, J. Pirker, T. Apperley, & S. Deterding (Eds.), *Proceedings of the 14th International Conference on the Foundations of Digital Games, FDG 2019* [22] ACM. <https://doi.org/10.1145/3337722.3337727>

Nummenmaa, T., & Kankainen, V. (2019). Social features in hybrid board game marketing material. In F. Khosmood, J. Pirker, T. Apperley, & S. Deterding (Eds.), *Proceedings of the 14th International Conference on the Foundations of Digital Games, FDG 2019* [67] ACM. <https://doi.org/10.1145/3337722.3341864>

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

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

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

Burova, A., Kelling, C., Keskinen, T., Hakulinen, J., Kallioniemi, P., Väättäjä, H., & Turunen, M. (2019). Promoting local culture and enriching airport experiences through interactive storytelling. In G. Jacucci, F. Paterno, M. Rohs, & C. Santoro (Eds.), *MUM 2019 - 18th International Conference on Mobile and Ubiquitous Multimedia, Proceedings* [3365640] (ACM International Conference Proceeding Series). Association for Computing Machinery. <https://doi.org/10.1145/3365610.3365640>

Hassan, S. S., Huttunen, H., Niemi, J., & Tohka, J. (2019). Bayesian receiver operating characteristic metric for linear classifiers. *Pattern Recognition Letters*, 128, 52-59. <https://doi.org/10.1016/j.patrec.2019.07.016>

- Yan, S., Wirta, J., & Kämäräinen, J.-K. (2020). Anthropometric clothing measurements from 3D body scans. *Machine Vision and Applications*, 31(1-2), [7]. <https://doi.org/10.1007/s00138-019-01054-4>
- Belyaev, E., Codreanu, M., Juntti, M., & Egiazarian, K. (2020). Compressive sensed video recovery via iterative thresholding with random transforms. *IET Image Processing*, 14(6), 1187-1200. <https://doi.org/10.1049/iet-ipr.2019.0661>
- Zou, N., Zhang, H., Cricri, F., Tavakoli, H. R., Lainema, J., Aksu, E., ... Rahtu, E. (2020). End-to-end learning for video frame compression with self-attention. In *Proceedings - 2020 IEEE/CVF Conference on Computer Vision and Pattern Recognition Workshops, CVPRW 2020* (pp. 580-584). (IEEE Computer Society Conference on Computer Vision and Pattern Recognition Workshops). IEEE. <https://doi.org/10.1109/CVPRW50498.2020.00079>
- Iashin, V., & Rahtu, E. (2020). Multi-modal dense video captioning. In *Proceedings - 2020 IEEE/CVF Conference on Computer Vision and Pattern Recognition Workshops, CVPRW 2020* (pp. 4117-4126). (IEEE Computer Society Conference on Computer Vision and Pattern Recognition Workshops). IEEE. <https://doi.org/10.1109/CVPRW50498.2020.00487>
- Sohrab, F., Raitoharju, J., Iosifidis, A., & Gabbouj, M. (2020). Multimodal subspace support vector data description. *Pattern Recognition*, 110, [107648]. <https://doi.org/10.1016/j.patcog.2020.107648>
- Lauri, M., Pajarinen, J., Peters, J., & Frintrop, S. (2020). Multi-sensor next-best-view planning as matroid-constrained submodular maximization. *IEEE Robotics and Automation Letters*, 5(4), 5323-5330. <https://doi.org/10.1109/LRA.2020.3007445>
- Genocchi, B., Cunha, A., Jain, S., Hyttinen, J., Lenk, K., & Ellingsrud, A. J. (2020). Parametric exploration of cellular swelling in a computational model of cortical spreading depression. In *42nd Annual International Conferences of the IEEE Engineering in Medicine and Biology Society: Enabling Innovative Technologies for Global Healthcare, EMBC 2020* (pp. 2491-2495). (Annual International Conference of the IEEE Engineering in Medicine and Biology Society; Vol. 2020-July). IEEE. <https://doi.org/10.1109/EMBC44109.2020.9175306>
- Pajarinen, J., Arenz, O., Peters, J., & Neumann, G. (2020). Probabilistic approach to physical object disentangling. *IEEE Robotics and Automation Letters*, 5(4), 5510-5517. <https://doi.org/10.1109/LRA.2020.3006789>
- Holm, J., Väänänen, K., & Battah, A. (2020). User experience of stereo and spatial audio in 360° live music videos. In *AcademicMindtrek 2020 - Proceedings of the 23rd International Academic Mindtrek Conference: January 2020, Tampere* (pp. 134-141). ACM. <https://doi.org/10.1145/3377290.3377291>
- Li, X., & Zhang, B. (2020). A preliminary network analysis on steam game tags: Another way of understanding game genres. In *AcademicMindtrek 2020 - Proceedings of the 23rd International Academic Mindtrek Conference: January 29-30, 2020, Tampere, Finland* (pp. 65-73). ACM. <https://doi.org/10.1145/3377290.3377300>
- Beheshtian, N., Kaipainen, K., Kähkönen, K., & Ahtinen, A. (2020). Color game: A collaborative social robotic game for icebreaking; Towards the design of robotic ambiances as part of smart building services. In *AcademicMindtrek 2020 - Proceedings of the 23rd International Academic Mindtrek Conference: January 2020, Tampere* (pp. 10-19). ACM. <https://doi.org/10.1145/3377290.3377292>
- Korkeila, H., Koivisto, J., & Hamari, J. (2020). Demographic differences in accumulated types of capital in massively multiplayer online role-playing games. In *AcademicMindtrek 2020 - Proceedings of the 23rd International Academic Mindtrek Conference: January 2020, Tampere* (pp. 74-82). ACM. <https://doi.org/10.1145/3377290.3377302>
- Jokiniemi, S., Myllärniemi, J., Poranen, T., & Vuorenmaa, M. (2020). Innovation challenges as a novel multidisciplinary learning platform. In *AcademicMindtrek 2020 - Proceedings of the 23rd International Academic Mindtrek Conference: January 2020, Tampere* (pp. 145-148). ACM. <https://doi.org/10.1145/3377290.3377311>

Bujic, M., & Hamari, J. (2020). Satisfaction and willingness to consume immersive journalism: Experiment of differences between VR, 360 video, and article. In *AcademicMindtrek 2020 - Proceedings of the 23rd International Academic Mindtrek Conference: January 2020, Tampere* (pp. 120-125). ACM. <https://doi.org/10.1145/3377290.3377310>

Niemelä, M., Ahtinen, A., & Turunen, M. (2020). Social human-robot interaction in the wild: A workshop proposal for academic mindtrek 2020. In *AcademicMindtrek 2020 - Proceedings of the 23rd International Academic Mindtrek Conference: January 2020, Tampere* (pp. 168-169). ACM. <https://doi.org/10.1145/3377290.3377320>

Chowdhury, A., Ahtinen, A., & Kaipainen, K. (2020). "The superhero of the university": Experience-driven design and field study of the university guidance robot. In *AcademicMindtrek 2020 - Proceedings of the 23rd International Academic Mindtrek Conference: January 2020, Tampere* (pp. 1-9). ACM. <https://doi.org/10.1145/3377290.3377304>

Tavakoli, H. R., Borji, A., Kannala, J., & Rahtu, E. (2020). Deep audio-visual saliency: Baseline model and data. In S. N. Spencer (Ed.), *Proceedings ETRA 2020 Short Papers - ACM Symposium on Eye Tracking Research and Applications, ETRA 2020* [3] ACM. <https://doi.org/10.1145/3379156.3391337>

Raitoharju, M., García-Fernández, F., Hostettler, R., Piché, R., & Särkkä, S. (2020). Gaussian mixture models for signal mapping and positioning. *Signal Processing*, 168, [107330]. <https://doi.org/10.1016/j.sigpro.2019.107330>

Tripathy, S., Kannala, J., & Rahtu, E. (2020). ICface: Interpretable and controllable face reenactment using GANs. In *2020 IEEE Winter Conference on Applications of Computer Vision, WACV 2020* (pp. 3374-3383). (IEEE Winter Conference on Applications of Computer Vision). IEEE. <https://doi.org/10.1109/WACV45572.2020.9093474>

Netzev, M., Angleraud, A., & Pieters, R. (2020). Soft robotic gripper with compliant cell stacks for industrial part handling. *IEEE Robotics and Automation Letters*, 5(4), 6821-6828. <https://doi.org/10.1109/LRA.2020.3020546>