

**The effect of challenge-based gamification on learning : An experiment in the context of statistics education.** / Legaki, Nikoletta Zampeta; Xi, Nannan; Hamari, Juho; Karpouzis, Kostas; Assimakopoulos, Vassilios.  
In: International Journal of Human Computer Studies, Vol. 144, 102496, 01.12.2020.  
Research output: Contribution to journal › Article › Scientific › peer-review

**Soft robotic gripper with compliant cell stacks for industrial part handling.** / Netzev, Metodi; Angleraud, Alexandre; Pieters, Roel.  
In: IEEE Robotics and Automation Letters, Vol. 5, No. 4, 01.10.2020, p. 6821-6828.  
Research output: Contribution to journal › Article › Scientific › peer-review

**Avatar capital : The relationships between player orientation and their avatar's social, symbolic, economic and cultural capital.** / Korkeila, Henry; Hamari, Juho.  
In: Computers in Human Behavior, Vol. 102, 2020, p. 14-21.  
Research output: Contribution to journal › Article › Scientific › peer-review

**From Chance to Serendipity : Knowledge Workers' Experiences of Serendipitous Social Encounters.** / Olshannikova, Ekaterina; Olsson, Thomas; Huhtamäki, Jukka; Paasovaara, Susanna; Kärkkäinen, Hannu.  
In: Advances in Human-Computer Interaction, Vol. 2020, 1827107, 2020.  
Research output: Contribution to journal › Article › Scientific › peer-review

**Development of measurement instrument for visual qualities of graphical user interface elements (VISQUAL) : a test in the context of mobile game icons.** / Jylhä, Henrietta; Hamari, Juho.  
In: User Modeling and User-Adapted Interaction, 2020.  
Research output: Contribution to journal › Article › Scientific › peer-review

**Does esports spectating influence game consumption?** / Macey, Joseph; Tyrväinen, Ville; Pirkkalainen, Henri; Hamari, Juho.  
In: Behaviour and Information Technology, 2020.  
Research output: Contribution to journal › Article › Scientific › peer-review

**ClothFace : A Passive RFID-Based Human-Technology Interface on a Shirtsleeve.** / Mehmood, Adnan; He, Han; Chen, Xiaochen; Vianto, Aleks; Vianto, Ville; Buruk, Oğuz 'Oz'; Virkki, Johanna.  
In: Advances in Human-Computer Interaction, Vol. 2020, 8854042, 2020.  
Research output: Contribution to journal › Article › Scientific › peer-review

**Probabilistic approach to physical object disentangling.** / Pajarinen, Joni; Arenz, Oleg; Peters, Jan; Neumann, Gerhard.  
In: IEEE Robotics and Automation Letters, Vol. 5, No. 4, 2020, p. 5510-5517.  
Research output: Contribution to journal › Article › Scientific › peer-review

**Multi-sensor next-best-view planning as matroid-constrained submodular maximization.** / Lauri, Mikko; Pajarinen, Joni; Peters, Jan; Frintrop, Simone.  
In: IEEE Robotics and Automation Letters, Vol. 5, No. 4, 2020, p. 5323-5330.  
Research output: Contribution to journal › Article › Scientific › peer-review

**Understanding decision-making in recruitment : Opportunities and challenges for information technology.** / Koivunen, Sami; Olsson, Thomas; Olshannikova, Ekaterina; Lindberg, Aki.  
In: Proceedings of the ACM on Human-Computer Interaction, Vol. 3, No. GROUP, 242, 01.12.2019.  
Research output: Contribution to journal › Article › Scientific › peer-review

**An icon that everyone wants to click : How perceived aesthetic qualities predict app icon successfulness.** / Jylhä, Henrietta; Hamari, Juho.  
In: International Journal of Human Computer Studies, Vol. 130, 01.10.2019, p. 73-85.  
Research output: Contribution to journal › Article › Scientific › peer-review

**Diffusion of innovation : Case of co-design of cabins in mobile work machine industry.** / Ellman, Asko; Tiainen, Tarja.  
In: Computers, Vol. 8, No. 2, 39, 01.06.2019.

Research output: Contribution to journal › Article › Scientific › peer-review

**Performance evaluation of bandwidth reservation for mmWave 5G NR systems.** / Begishev, V. O.; Sopin, E. S.; Molchanov, D. A.; Samouylov, A. K.; Gaidamaka, Yu V.; Samouylov, K. E.  
In: Informatsionno-Upravliaiushchie Sistemy, No. 5, 01.01.2019, p. 51-63.

Research output: Contribution to journal › Article › Scientific › peer-review

**Uses and Gratifications of Pokémon Go : Why do People Play Mobile Location-Based Augmented Reality Games? /**

Hamari, Juho; Malik, Aqdas; Koski, Johannes; Johri, Aditya.

In: International Journal of Human-Computer Interaction, Vol. 35, No. 9, 2019.

Research output: Contribution to journal › Article › Scientific › peer-review

**DNA Molecular Storage System : Transferring Digitally Encoded Information through Bacterial Nanonetworks.** / Tavella, Federico; Giaretta, Alberto; Dooley-Cullinane, Triona Marie; Conti, Mauro; Coffey, Lee; Balasubramaniam, Sasitharan.  
In: IEEE Transactions on Emerging Topics in Computing , 2019.

Research output: Contribution to journal › Article › Scientific › peer-review

**Teaching semantics and skills for human-robot collaboration.** / Angleraud, Alexandre; Houbre, Quentin; Pieters, Roel.

In: Paladyn, Vol. 10, No. 1, 2019, p. 318-329.

Research output: Contribution to journal › Article › Scientific › peer-review

**Characterization of the anisotropic deformation of the right ventricle during open heart surgery.** / Soltani, A.; Lahti, J.; Järvelä, K.; Laurikka, J.; Kuokkala, V. T.; Hokka, M.

In: COMPUTER METHODS IN BIOMECHANICS AND BIOMEDICAL ENGINEERING, 2019.

Research output: Contribution to journal › Article › Scientific › peer-review

**Investigating relationships between video gaming, spectating esports, and gambling.** / Macey, Joseph; Hamari, Juho.

In: Computers in Human Behavior, Vol. 80, 03.2018, p. 344-353.

Research output: Contribution to journal › Article › Scientific › peer-review

**Social motivations of live-streaming viewer engagement on Twitch.** / Hilvert-Bruce, Zorah; Neill, James T.; Sjöblom, Max; Hamari, Juho.

In: Computers in Human Behavior, Vol. 84, 14.02.2018, p. 58-67.

Research output: Contribution to journal › Article › Scientific › peer-review

**Gamification, quantified-self or social networking? Matching users' goals with motivational technology.** / Hamari, Juho; Hassan, Lobna; Dias, Antonio.

In: User Modeling and User-Adapted Interaction, Vol. 28, No. 1, 2018, p. 35-74.

Research output: Contribution to journal › Article › Scientific › peer-review

**How games induce cooperation? A study on the relationship between game features and we-intentions in an augmented reality game.** / Morschheuser, Benedikt; Riar, Marc; Hamari, Juho; Maedche, Alexander.

In: Computers in Human Behavior, Vol. 77, 01.12.2017, p. 169-183.

Research output: Contribution to journal › Article › Scientific › peer-review

**Gamified crowdsourcing : Conceptualization, literature review, and future agenda.** / Morschheuser, Benedikt; Hamari, Juho; Koivisto, Jonna; Maedche, Alexander.

In: International Journal of Human-Computer Studies, Vol. 106, 01.10.2017, p. 26-43.

Research output: Contribution to journal › Article › Scientific › peer-review

**Content structure is king : An empirical study on gratifications, game genres and content type on Twitch.** / Sjöblom, Max; Törhönen, Maria; Hamari, Juho; Macey, Joseph.

In: Computers in Human Behavior, Vol. 73, 01.08.2017, p. 161-171.

Research output: Contribution to journal › Article › Scientific › peer-review

**Do badges increase user activity? A field experiment on the effects of gamification.** / Hamari, Juho.

In: Computers in Human Behavior, Vol. 71, 01.06.2017, p. 469-478.

Research output: Contribution to journal › Article › Scientific › peer-review

**Assessing fraction knowledge by a digital game.** / Ninaus, Manuel; Kiili, Kristian; McMullen, Jake; Moeller, Korbinian.

In: Computers in Human Behavior, Vol. 70, 01.05.2017, p. 197-206.

Research output: Contribution to journal › Article › Scientific › peer-review

**Emotional Reactions to Point-Light Display Animations.** / Venesvirta, Hanna; Surakka, Veikko; Gizatdinova, Yulia; Lylykangas, Jani; Špakov, Oleg; Verho, Jarmo; Vetek, Akos; Leikkala, Jukka.

In: Interacting with Computers, Vol. 28, No. 4, 16.06.2016, p. 521-531.

Research output: Contribution to journal › Article › Scientific › peer-review

**Exploring the role of ten universal values in using products and services.** / Partala, Timo; Kujala, Sari.

In: Interacting with Computers, Vol. 28, No. 3, 01.05.2016, p. 311-331.

Research output: Contribution to journal › Article › Scientific › peer-review

**Graph Embedded Extreme Learning Machine.** / Iosifidis, Alexandros; Tefas, Anastasios; Pitas, Ioannis.

In: IEEE Transactions on Cybernetics, Vol. 46, No. 1, 2016, p. 311 - 324.

Research output: Contribution to journal › Article › Scientific › peer-review

**Defining user experience goals to guide the design of industrial systems.** / Kaasinen, Eija; Roto, Virpi; Hakulinen, Jaakko; Heimonen, Tomi; Jokinen, Jussi P P; Karvonen, Hannu; Keskinen, Tuuli; Koskinen, Hanna; Lu, Yichen; Saariluoma, Pertti; Tokkonen, Helena; Turunen, Markku.

In: Behaviour and Information Technology, Vol. 34, No. 10, 03.10.2015, p. 976-991.

Research output: Contribution to journal › Article › Scientific › peer-review

**Exploring co-learning behavior of conference participants with visual network analysis of Twitter data.** / Aramo-Immonen, Heli; Jussila, Jari; Huhtamäki, Jukka.

In: Computers in Human Behavior, Vol. 51, No. Part B, 10.2015, p. 1154-1162.

Research output: Contribution to journal › Article › Scientific › peer-review

**"Working out for likes" : An empirical study on social influence in exercise gamification.** / Hamari, Juho; Koivisto, Jonna.

In: Computers in Human Behavior, Vol. 50, 01.09.2015, p. 333-347.

Research output: Contribution to journal › Article › Scientific › peer-review

**Understanding the most influential user experiences in successful and unsuccessful technology adoptions.** / Partala, Timo; Saari, Timo.

In: Computers in Human Behavior, Vol. 53, 25.07.2015, p. 381-395.

Research output: Contribution to journal › Article › Scientific › peer-review

**Railway fastener inspection by real-time machine vision.** / Aytekin, Caglar; Rezaeitabar, Yousef; Dogru, Sedat; Ulusoy, Ilkay.

In: IEEE Transactions on Systems, Man, and Cybernetics: Systems, Vol. 45, No. 7, 01.07.2015, p. 1101-1107.

Research output: Contribution to journal › Article › Scientific › peer-review

**Quality measures for improving technology trees.** / Heinimäki, Teemu J.; Elomaa, Tapio.

In: International Journal of Computer Games Technology, Vol. 2015, 975371, 2015.

Research output: Contribution to journal › Article › Scientific › peer-review

**Vibrotactile Stimulation as an Instructor for Mimicry-Based Physical Exercise.** / Lylykangas, Jani; Heikkinen, Jani; Surakka, Veikko; Raisamo, Roope; Myllymaa, Kalle; Laitinen, Arvo.

In: Advances in Human Computer Interaction, 2015.

Research output: Contribution to journal › Article › Scientific › peer-review

**A Barrier framework for open e-learning in public administrations.** / Stoffregen, Julia; Pawlowski, Jan M.; Pirkkalainen, Henri.

In: Computers in Human Behavior, Vol. 51, No. B, 2015, p. 674-684.

Research output: Contribution to journal › Article › Scientific › peer-review

**Dynamic text presentation in print interpreting - An eye movement study of reading behaviour.** / Sharmin, Selina; Špakov, Oleg; Rähkä, Kari Jouko.

In: International Journal of Human-Computer Studies, Vol. 78, 2015, p. 17-30.

Research output: Contribution to journal › Article › Scientific › peer-review

**Class-Specific Reference Discriminant Analysis With Application in Human Behavior Analysis.** / Iosifidis, Alexandros; Tefas, Anastasios; Pitas, Ioannis.

In: IEEE Transactions on Human-Machine Systems, Vol. 45, No. 3, 25.12.2014, p. 315-326.

Research output: Contribution to journal › Article › Scientific › peer-review

**Schoolchildren's user experiences on a physical exercise game utilizing lighting and audio.** / Keskinen, Tuuli; Hakulinen, Jaakko; Turunen, Markku; Heimonen, Tomi; Sand, Antti; Paavilainen, Janne; Parviainen, Jaana; Yrjänäinen, Sari; Mäyrä, Frans; Okkonen, Jussi; Raisamo, Roope.

In: Entertainment Computing, Vol. 5, No. 4, 01.12.2014, p. 475-484.

Research output: Contribution to journal › Article › Scientific › peer-review

**Global social knowledge management - Understanding barriers for global workers utilizing social software.** / Pirkkalainen, Henri; Pawlowski, Jan M.

In: Computers in Human Behavior, Vol. 30, 01.2014, p. 637-647.

Research output: Contribution to journal › Article › Scientific › peer-review

**Head movement and facial expressions as game input.** / Ilves, Mirja; Gizatdinova, Yulia; Surakka, Veikko; Vankka, Esko.

In: Entertainment Computing, Vol. 5, No. 3, 2014, p. 147-156.

Research output: Contribution to journal › Article › Scientific › peer-review

**Demographic differences in perceived benefits from gamification.** / Koivisto, Jonna; Hamari, Juho.

In: Computers in Human Behavior, Vol. 35, 2014, p. 179-188.

Research output: Contribution to journal › Article › Scientific › peer-review

**Transparency of intentions decreases privacy concerns in ubiquitous surveillance.** / Oulasvirta, Antti; Suomalainen, Tiia; Hamari, Juho; Lampinen, Airi; Karvonen, Kristiina.

In: CYBERPSYCHOLOGY BEHAVIOR AND SOCIAL NETWORKING, Vol. 17, No. 10, 2014.

Research output: Contribution to journal › Article › Scientific › peer-review

**Measuring flow in gamification : Dispositional Flow Scale-2.** / Hamari, Juho; Koivisto, Jonna.

In: Computers in Human Behavior, Vol. 40, 2014, p. 133-143.

Research output: Contribution to journal › Article › Scientific › peer-review

**Comparison of Saltation, Amplitude Modulation, and a Hybrid Method of Vibrotactile Stimulation.** / Raisamo, Jukka; Raisamo, Roope; Surakka, V.

In: IEEE Transactions on Haptics, Vol. 6, No. 4, 6517847, 10.2013, p. 517-521.

Research output: Contribution to journal › Article › Scientific › peer-review

**An evaluation of the virtual curvature with the StickGrip haptic device : A case study.** / Evreinova, Tatiana V.; Evreinov, Grigori; Raisamo, Roope.

In: Universal Access in the Information Society, Vol. 12, No. 2, 06.2013, p. 161-173.

Research output: Contribution to journal › Article › Scientific › peer-review

**Virtual sectioning and haptic exploration of volumetric shapes in the absence of visual feedback.** / Evreinova, Tatiana V.; Evreinov, Grigori; Raisamo, Roope.

In: Advances in Human Computer Interaction, Vol. 2013, 740324, 2013.

Research output: Contribution to journal › Article › Scientific › peer-review

**Touch gestures in communicating emotional intention via vibrotactile stimulation.** / Rantala, Jussi; Salminen, Katri; Raisamo, Roope; Surakka, Veikko.

In: International Journal of Human-Computer Studies, Vol. 71, No. 6, 2013, p. 679-690.

Research output: Contribution to journal › Article › Scientific › peer-review

**SymbolChat : A flexible picture-based communication platform for users with intellectual disabilities.** / Keskinen, Tuuli; Heimonen, Tomi; Turunen, Markku; Rajaniemi, Juha Pekka; Kauppinen, Sami.

In: Interacting with Computers, Vol. 24, No. 5, 09.2012, p. 374-386.

Research output: Contribution to journal › Article › Scientific › peer-review

**Barriers to task-based information access in molecular medicine.** / Kumpulainen, Sanna; Järvelin, Kalervo.

In: JOURNAL OF THE ASSOCIATION FOR INFORMATION SCIENCE AND TECHNOLOGY, Vol. 63, No. 1, 01.2012, p. 86-97.

Research output: Contribution to journal › Article › Scientific › peer-review

**Tactile modulation of emotional speech samples.** / Salminen, Katri; Surakka, Veikko; Lylykangas, Jani; Rantala, Jussi; Ahmaniemi, Teemu; Raisamo, Roope; Trendafilov, Dari; Kildal, Johan.

In: Advances in Human Computer Interaction, Vol. 2012, 741304, 2012.

Research output: Contribution to journal › Article › Scientific › peer-review

**Heart rate responses to synthesized affective spoken words.** / Ilves, Mirja; Surakka, Veikko.

In: Advances in Human Computer Interaction, Vol. 2012, 158487, 2012.

Research output: Contribution to journal › Article › Scientific › peer-review

**Novel approaches to crawling important pages early.** / Alam, Md Hijbul; Ha, Jong Woo; Lee, Sang Keun.

In: Knowledge and Information Systems, Vol. 33, No. 3, 2012, p. 707-734.

Research output: Contribution to journal › Article › Scientific › peer-review

**Integrating discrete events and continuous head movements for video-based interaction techniques.** / Evreinova, Tatiana V.; Evreinov, Grigori; Raisamo, Roope.

In: Behaviour and Information Technology, Vol. 30, No. 6, 11.2011, p. 739-746.

Research output: Contribution to journal › Article › Scientific › peer-review

**Interaction strategies for an affective conversational agent.** / 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.

In: Presence: Teleoperators and Virtual Environments, Vol. 20, No. 5, 10.2011, p. 395-411.

Research output: Contribution to journal › Article › Scientific › peer-review

**Multimodal and mobile conversational Health and Fitness Companions.** / Turunen, Markku; Hakulinen, Jaakko; Ståhl, Olov; Gambäck, Björn; Hansen, Preben; Rodríguez Gancedo, Mari C.; De La Cámara, Raúl Santos; Smith, Cameron; Charlton, Daniel; Cavazza, Marc.

In: Computer Speech and Language, Vol. 25, No. 2, 04.2011, p. 192-209.

Research output: Contribution to journal › Article › Scientific › peer-review

**Tailored gamification : A review of literature.** / Klock, Ana Carolina Tomé; Gasparini, Isabela; Pimenta, Marcelo Soares; Hamari, Juho.

In: International Journal of Human Computer Studies, Vol. 144, 102495, 01.12.2020.

Research output: Contribution to journal › Review Article › Scientific › peer-review

**Why do people buy virtual goods : A meta-analysis.** / Hamari, Juho; Keronen, Lauri.

In: Computers in Human Behavior, Vol. 71, 01.06.2017, p. 59-69.

Research output: Contribution to journal › Review Article › Scientific › peer-review

**Subjective responses to synthesised speech with lexical emotional content : The effect of the naturalness of the synthetic voice.** / Ilves, Mirja; Surakka, Veikko.

In: Behaviour and Information Technology, Vol. 32, No. 2, 01.02.2013, p. 117-131.

Research output: Contribution to journal › Review Article › Scientific › peer-review

**At least nine ways to play : Approaching gamer mentalities.** / Kallio, Kirsi Pauliina; Mäyrä, Frans; Kaipainen, Kirsikka.

In: GAMES AND CULTURE: A JOURNAL OF INTERACTIVE MEDIA, Vol. 6, No. 4, 07.2011, p. 327-353.

Research output: Contribution to journal › Review Article › Scientific › peer-review

**Some background on dialogue management and conversational speech for dialogue systems.** / Wilks, Yorick; Catizone, Roberta; Worgan, Simon; Turunen, Markku.

In: Computer Speech and Language, Vol. 25, No. 2, 04.2011, p. 128-139.

Research output: Contribution to journal › Review Article › Scientific › peer-review

**Mille-Oeille : An architectural response to zoos' obsolescence in post-anthropocentric times.** / Rubio Hernandez, Rosana; Pérez-Guembe, Elena.

DATA & DESIGN: Methods of Computational Design Strategies. ed. / Marcella Del Signore; Nancy Diniz. Routledge, 2019.

Research output: Chapter in Book/Report/Conference proceeding › Chapter › Scientific › peer-review

**Collaborative Writing and Knowledge Creation in a Social Media Online Community.** / Suominen, Anu; Jussila, Jari.

The Future of Innovation and Technology in Education: Policies and Practices for Teaching and Learning Excellence (Emerald Studies in Higher Education, Innovation and Technology). ed. / Anna Visvizi; Miltiadis D. Lytras; Linda Daniela. Emerald Group Publishing Ltd., 2018. p. 95-109.

Research output: Chapter in Book/Report/Conference proceeding › Chapter › Scientific › peer-review

**Mille-Oeille : Environmental Zoo.** / Rubio Hernandez, Rosana; Pérez-Guembe, Elena.

Time, Space, Existence. GAA Foundation, 2018. p. 410-413.

Research output: Chapter in Book/Report/Conference proceeding › Chapter › Scientific › peer-review

**Perceived Impacts as User Experience Components in Mobile News Making with Smartphones.** / Väättäjä, Heli.

Emerging Perspectives on the Design, Use, and Evaluation of Mobile and Handheld Devices. ed. / Joanna Lumsden. IGI Global, 2015. p. 218-238.

Research output: Chapter in Book/Report/Conference proceeding › Chapter › Scientific › peer-review

**Kvazaar 2.0 : Fast and efficient open-source HEVC inter encoder.** / Lemmetti, Ari; Viitanen, Marko; Mercat, Alexandre; Vanne, Jarno.

MMSys 2020 - Proceedings of the 2020 Multimedia Systems Conference. ACM, 2020. p. 237-242.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

**Deep audio-visual saliency : Baseline model and data.** / Tavakoli, Hamed Rezazadegan; Borji, Ali; Kannala, Juho; Rahtu, Esa.

Proceedings ETRA 2020 Short Papers - ACM Symposium on Eye Tracking Research and Applications, ETRA 2020. ed. / Stephen N. Spencer. ACM, 2020. 3.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

**"The superhero of the university" : Experience-driven design and field study of the university guidance robot.** /

Chowdhury, Aparajita; Ahtinen, Aino; Kaipainen, Kirsikka.

AcademicMindtrek 2020 - Proceedings of the 23rd International Academic Mindtrek Conference: January 2020, Tampere. ACM, 2020. p. 1-9.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

**A preliminary network analysis on steam game tags : Another way of understanding game genres.** / Li, Xiaozhou; Zhang, Boyang.

AcademicMindtrek 2020 - Proceedings of the 23rd International Academic Mindtrek Conference: January 29-30, 2020, Tampere, Finland. ACM, 2020. p. 65-73.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

**Color game : A collaborative social robotic game for icebreaking; Towards the design of robotic ambiances as part of smart building services.** / Beheshtian, Nasim; Kaipainen, Kirsikka; Kähkönen, Kalle; Ahtinen, Aino.

AcademicMindtrek 2020 - Proceedings of the 23rd International Academic Mindtrek Conference: January 2020, Tampere. ACM, 2020. p. 10-19.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

**Demographic differences in accumulated types of capital in massively multiplayer online role-playing games.** / Korkeila, Henry; Koivisto, Jonna; Hamari, Juho.

AcademicMindtrek 2020 - Proceedings of the 23rd International Academic Mindtrek Conference: January 2020, Tampere. ACM, 2020. p. 74-82.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

**Satisfaction and willingness to consume immersive journalism : Experiment of differences between VR, 360 video, and article.** / Bujic, Mila; Hamari, Juho.

AcademicMindtrek 2020 - Proceedings of the 23rd International Academic Mindtrek Conference: January 2020, Tampere. ACM, 2020. p. 120-125.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

**Innovation challenges as a novel multidisciplinary learning platform.** / Jokiniemi, Sini; Myllärniemi, Jussi; Poranen, Timo; Vuorenmaa, Marika.

AcademicMindtrek 2020 - Proceedings of the 23rd International Academic Mindtrek Conference: January 2020, Tampere. ACM, 2020. p. 145-148.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

**User experience of stereo and spatial audio in 360° live music videos.** / Holm, Jukka; Väänänen, Kaisa; Battah, Anas.

AcademicMindtrek 2020 - Proceedings of the 23rd International Academic Mindtrek Conference: January 2020, Tampere. ACM, 2020. p. 134-141.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

**Promoting local culture and enriching airport experiences through interactive storytelling.** / Burova, Alisa; Kelling, Chelsea; Keskinen, Tuuli; Hakulinen, Jaakko; Kallioniemi, Pekka; Väättäjä, Heli; Turunen, Markku.

MUM 2019 - 18th International Conference on Mobile and Ubiquitous Multimedia, Proceedings. ed. / Giulio Jacucci; Fabio Paterno; Michael Rohs; Carmen Santoro. Association for Computing Machinery, 2019. 3365640 (ACM International Conference Proceeding Series).

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

**Red Alert : Break-Glass Protocol to Access Encrypted Medical Records in the Cloud.** / De Oliveira, Marcela Tuler; Michalas, Antonis; Groot, Adrien E.D.; Marquering, Henk A.; Olabarriga, Silvia Delgado.

2019 IEEE International Conference on E-Health Networking, Application and Services, HealthCom 2019. IEEE, 2019. 9009598.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

**Social features in hybrid board game marketing material.** / Nummenmaa, Timo; Kankainen, Ville.

Proceedings of the 14th International Conference on the Foundations of Digital Games, FDG 2019. ed. / Foaad Khosmood; Johanna Pirker; Thomas Apperley; Sebastian Deterding. ACM, 2019. 67.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

**Game postmortems vs. developer Reddit AMAs : Computational analysis of developer communication.** / Lu, Chien; Peltonen, Jaakko; Nummenmaa, Timo.

Proceedings of the 14th International Conference on the Foundations of Digital Games, FDG 2019. ed. / Foaad Khosmood; Johanna Pirker; Thomas Apperley; Sebastian Deterding. ACM, 2019. 22.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

**Real-time online drilling vibration analysis using data mining.** / Zare, Marzieh; Huova, Mikko; Visa, Ari; Launis, Sirpa.

Proceedings of the 2019 2nd International Conference on Data Science and Information Technology, DSIT 2019. ACM, 2019. p. 175-180.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

**Public and open HEVC encoding service in the cloud.** / Altonen, Aaro; Viitanen, Marko; Räsänen, Joni; Mercat, Alexandre; Vanne, Jarno.

Proceedings of the 10th ACM Multimedia Systems Conference, MMSys 2019. ACM, 2019. p. 300-303.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

**Facilitating the first move : Exploring inspirational design patterns for aiding initiation of social encounters.** / Mitchell, Robb; Olsson, Thomas.

C&T 2019 - 9th International Conference on Communities and Technologies, Conference Proceedings. ed. / Hilda Tellioglu; Florian Cech. ACM, 2019. p. 283-294.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

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

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

**Additional lossless compression of JPEG images based on BPG.** / Ponomarenko, Mykola; Miroshnichenko, Oleksandr; Lukin, Vladimir; Egiazarian, Karen.

Image Processing: Algorithms and Systems XVII. 2019. (IS and T International Symposium on Electronic Imaging Science and Technology).

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

**Phase masks optimization for broadband diffractive imaging.** / Ponomarenko, Mykola; Katkovnik, Vladimir; Egiazarian, Karen.

Image Processing: Algorithms and Systems XVII. 2019. (IS and T International Symposium on Electronic Imaging Science and Technology).

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

**Combined no-reference IQA metric and its performance analysis.** / Ieremeiev, Oleg; Lukin, Vladimir; Ponomarenko, Nikolay; Egiazarian, Karen.

Image Processing: Algorithms and Systems XVII. 2019. (IS and T International Symposium on Electronic Imaging Science and Technology).

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

**Log analysis of 360-degree video users via MQTT.** / Luoto, Antti.

ICGDA 2019: Proceedings of the 2019 2nd International Conference on Geoinformatics and Data Analysis . ACM, 2019. p. 130-137.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

**Human-robot interactive learning architecture using ontologies and symbol manipulation.** / Angleraud, Alexandre; Houbre, Quentin; Kyrki, Ville; Pieters, Roel.

RO-MAN 2018 - 27th IEEE International Symposium on Robot and Human Interactive Communication: August 27-31, 2018, Nanjing, China.. IEEE, 2018. p. 384-389 (IEEE RO-MAN).

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

**Systematic literature review on user logging in virtual reality.** / Luoto, Antti.

Mindtrek 2018 - Proceedings of the 22nd International Academic Mindtrek Conference. ACM, 2018. p. 110-117.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

**Robotic process automation - Creating value by digitalizing work in the private healthcare?** / Ratia, M.; Myllärniemi, J.; Helander, N.

Mindtrek 2018 - Proceedings of the 22nd International Academic Mindtrek Conference. ACM, 2018. p. 222-227.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review



**The Finnish you – An interactive storytelling application for an airport environment.** / Burova, Alisa; Kelling, Chelsea; Hakulinen, Jaakko; Kallioniemi, Pekka; Keskinen, Tuuli; Turunen, Markku; Väättäjä, Heli.  
Mindtrek 2018 - Proceedings of the 22nd International Academic Mindtrek Conference. ACM, 2018. p. 182-191.  
Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

**Implications of audio and narration in the user experience design of virtual reality.** / Kelling, Chelsea; Karhu, Jussi; Kauhanen, Otto; Turunen, Markku; Väättäjä, Heli; Lindqvist, Vesa.  
Mindtrek 2018 - Proceedings of the 22nd International Academic Mindtrek Conference. ACM, 2018. p. 258-261.  
Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

**Guidelines for development and evaluation of usage data analytics tools for human-machine interactions with industrial manufacturing systems.** / Varsaluoma, Jari; Väättäjä, Heli; Heimonen, Tomi; Tiitinen, Katariina; Hakulinen, Jaakko; Turunen, Markku; Nieminen, Harri.  
Mindtrek 2018 - Proceedings of the 22nd International Academic Mindtrek Conference. ACM, 2018. p. 172-181.  
Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

**Olfactory display prototype for presenting and sensing authentic and synthetic odors.** / 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.  
ICMI 2018 - Proceedings of the 2018 International Conference on Multimodal Interaction. ACM, 2018. p. 73-77.  
Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

**Analysis of accommodation cues in holographic stereograms.** / Mäkinen, Jani; Sahin, Erdem; Gotchev, Atanas.  
2018 - 3DTV-Conference: The True Vision - Capture, Transmission and Display of 3D Video, 3DTV-CON 2018. IEEE, 2018. 8478586.  
Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

**Viewing simulation of integral imaging display based on wave optics.** / Akpinar, Ugur; Sahin, Erdem; Gotchev, Atanas.  
2018 - 3DTV-Conference: The True Vision - Capture, Transmission and Display of 3D Video, 3DTV-CON 2018. IEEE, 2018. 8478568.  
Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

**Understanding animals : A critical challenge in ACI.** / Aspling, Fredrik; Juhlin, Oskar; Väättäjä, Heli.  
NordiCHI 2018: Revisiting the Life Cycle - Proceedings of the 10th Nordic Conference on Human-Computer Interaction. ACM, 2018. p. 148-160.  
Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

**Designing for experiences with socially interactive robots.** / Obaid, Mohammad; Kaipainen, Kirsikka; Ocnareescu, Ioana; Ahtinen, Aino.  
NordiCHI 2018: Revisiting the Life Cycle - Proceedings of the 10th Nordic Conference on Human-Computer Interaction. ACM, 2018. p. 948-951.  
Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

**Liking the game : How can spectating motivations influence social media usage at live esports events?** / Sjöblom, Max; Hassan, Lobna; Macey, Joseph; Törhönen, Maria; Hamari, Juho.  
Proceedings of the 9th International Conference on Social Media and Society, SMSociety 2018. ACM, 2018. p. 160-167.  
Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

**Activation game for older adults - Development and initial user experiences.** / Merilampi, Sari; Koivisto, Antti; Virkki, Johanna.  
2018 IEEE 6th International Conference on Serious Games and Applications for Health, SeGAH 2018. IEEE, 2018. p. 1-5.  
Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

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

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

**Optimized viewport dependent streaming of stereoscopic omnidirectional video.** / Naik, Deepa; Curcio, Igor D.D.; Toukoma, Henri.

Proceedings of the 23th ACM Workshop on Packet Video, PV 2018. ACM, 2018. p. 37-42.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

**Fast and easy live video service setup using lightweight virtualization.** / Heikkinen, Antti; Pääkkönen, Pekka; Viitanen, Marko; Vanne, Jarno; Riikonen, Tommi; Bakanoglu, Kagan.

Proceedings of the 9th ACM Multimedia Systems Conference, MMSys 2018. ACM, 2018. p. 487-489.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

**Looking for a five-legged sheep : Identifying enterprise architects' skills and competencies.** / Ylinen, M.; Pekkola, Samuli.

Proceedings of the 19th Annual International Conference on Digital Government Research: Governance in the Data Age, DG.O 2018. ACM, 2018. a58.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

**Investigating the effects of legacy bias : User elicited gestures from the end users perspective.** / Erkaya, Merve; Özcan, Oğuzhan; Beşevli, Ceylan; Buruk, Oğuz Turan.

DIS 2018 - Companion Publication of the 2018 Designing Interactive Systems Conference. ACM, 2018. p. 277-281.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

**Ripple thermostat : Affecting the emotional experience through interactive force feedback and shape change.** / Van Oosterhout, Anke; Alonso, Miguel Bruns; Jumisko-Pyykkö, Satu.

Proceedings of the 2018 CHI Conference on Human Factors in Computing Systems . ACM, 2018. 655.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

**A novel technique for analysis of postural information with wearable devices.** / Jeyhani, Vala; Mahdiani, Shadi; Viik, Jari; Oksala, Niku; Vehkaoja, Antti.

2018 IEEE 15th International Conference on Wearable and Implantable Body Sensor Networks, BSN 2018. IEEE, 2018. p. 30-33.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

**The use of advanced imaging technology in welfare technology solutions - Some ethical aspects.** / Lilja, Kari K.; Palomäki, Jari.

3DTV-CON 2017 - 3D True Vision v2: Research and Applications in Future 3D Media. IEEE, 2018. p. 1-4.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

**Viewport-dependent delivery schemes for stereoscopic panoramic video.** / Ghaznavi-Youvalari, Ramin; Hannuksela, Miska M.; Aminlou, Alireza; Gabbouj, Moncef.

3DTV-CON 2017 - 3D True Vision v2: Research and Applications in Future 3D Media. IEEE, 2018. p. 1-4.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

**Methods and tools for denoising of complex-valued images based on block-matching and high order singular value decomposition.** / Ponomarenko, Mykola; Katkovnik, Vladimir; Egiazarian, Karen.

Electronic Imaging: Image Processing: Algorithms and Systems XVI. Society for Imaging Science and Technology, 2018.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

**Deep p-Fibonacci scattering networks.** / Battisti, F.; Carli, M.; De Paola, E.; Egiazarian, K.

Electronic Imaging: Image Processing: Algorithms and Systems XVI. Society for Imaging Science and Technology, 2018.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

**Blind estimation of white Gaussian noise variance in highly textured images.** / Ponomarenko, Mykola; Gapon, Nikolay; Voronin, Viacheslav; Egiazarian, Karen.

Electronic Imaging: Image Processing: Algorithms and Systems XVI. Society for Imaging Science and Technology, 2018.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

**Robust linearized combined metrics of image visual quality.** / Ieremeiev, Oleg; Lukin, Vladimir; Ponomarenko, Nikolay; Egiazarian, Karen.  
Electronic Imaging: Image Processing: Algorithms and Systems XVI. Society for Imaging Science and Technology, 2018.  
Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

**Combined local and global image enhancement algorithm.** / Voronin, V.; Semenishchev, E.; Ponomarenko, M.; Aghaian, S.  
Electronic Imaging: Image Processing: Algorithms and Systems XVI. Society for Imaging Science and Technology, 2018.  
Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

**Compression of signs of DCT coefficients for additional lossless compression of JPEG images.** / Miroshnichenko, Oleksandr; Ponomarenko, Mykola; Lukin, Vladimir; Egiazarian, Karen.  
Electronic Imaging: Image Processing: Algorithms and Systems XVI. Society for Imaging Science and Technology, 2018.  
Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

**Conversion of sparsely-captured light field into alias-free fullparallax multiview content.** / Sahin, Erdem; Vagharshakyan, Suren; Bregovic, Robert; Lee, Gwangsoon; Gotchev, Atanas.  
Electronic Imaging: Stereoscopic Displays and Applications XXIX. Society for Imaging Science and Technology, 2018. p. 1441-1445.  
Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

**Multi-factor authentication for wearables : Configuring system parameters with risk function.** / Bezzateev, Sergey; Afanasyeva, Aleksandra; Voloshina, Natalia; Ometov, Aleksandr.  
Proceedings of the 2nd International Conference on Advanced Wireless Information, Data, and Communication Technologies, AWICT 2017. ACM, 2017.  
Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

**Bandwidth reduction of omnidirectional viewport-dependent video streaming via subjective quality assessment.** / Curcio, Igor D.D.; Toukoma, Henri; Naik, Deepa.  
AltMM 2017 - Proceedings of the 2nd International Workshop on Multimedia Alternate Realities, co-located with MM 2017. ACM, 2017. p. 9-14.  
Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

**Novel D2D-based relaying method for multicast services over 3GPP LTE-A systems.** / Araniti, G.; Orsino, A.; Militano, L.; Putrino, G.; Andreev, S.; Koucheryavy, Y.; Iera, A.  
2017 IEEE International Symposium on Broadband Multimedia Systems and Broadcasting, BMSB 2017. IEEE, 2017.  
Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

**Mobility aware eMBMS management in urban 5G-oriented systems.** / Desogus, C.; Fadda, M.; Murrioni, M.; Araniti, G.; Orsino, A.  
2017 IEEE International Symposium on Broadband Multimedia Systems and Broadcasting, BMSB 2017. IEEE, 2017.  
Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

**Optimal subgroup configuration for multicast services over 5G-satellite systems.** / Orsino, A.; Araniti, G.; Scopelliti, P.; Gudkova, I. A.; Samouylov, K. E.; Iera, A.  
2017 IEEE International Symposium on Broadband Multimedia Systems and Broadcasting, BMSB 2017. IEEE, 2017.  
Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

**Children designing videos : Tools, pedagogical models, and best practices for digital storytelling and media-making in the classroom.** / Multisilta, Jari; Niemi, Hannele; Hamilton, Eric.  
IDC 2017 - Proceedings of the 2017 ACM Conference on Interaction Design and Children. ACM, 2017. p. 693-696.  
Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

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

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

**Operationalizing the experience factory for effort estimation in agile processes.** / Taibi, D.; Lenarduzzi, V.; Diebold, P.; Lunesu, I.

Proceedings of the 21st International Conference on Evaluation and Assessment in Software Engineering, EASE 2017. Vol. Part F128635 Association for Computing Machinery, 2017. p. 31-40.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

**Comparing communication effort within the scrum, scrum with Kanban, XP, and Banana development processes.** / Taibi, Davide; Lenarduzzi, Valentina; Ahmad, Muhammad Ovais; Liukkunen, Kari.

Proceedings of the 21st International Conference on Evaluation and Assessment in Software Engineering, EASE 2017. Vol. Part F128635 Association for Computing Machinery, 2017. p. 258-263.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

**Microservices in agile software development : A workshop-based study into issues, advantages, and disadvantages.** / Taibi, Davide; Lenarduzzi, Valentina; Pahl, Claus; Janes, Andrea.

Proceedings of the XP2017 Scientific Workshops, XP 2017. Vol. Part F129907 Association for Computing Machinery, 2017. a23.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

**Effects of extrinsic noise are promoter kinetics dependent.** / Bahrudeen, Mohamed N.M.; Startceva, Sofia; Ribeiro, Andre S.

Proceedings of the 2017 9th International Conference on Bioinformatics and Biomedical Technology, ICBBT 2017. ACM, 2017. p. 44-47.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

**Modular audio story platform for museums.** / Salo, Kari; Zinin, Vallo; Bauters, Merja; Mikkonen, Tommi.

IUI 2017 - Companion of the 22nd International Conference on Intelligent User Interfaces. ACM, 2017. p. 113-116.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

**Towards a conceptual framework for privacy protection in the use of interactive 360° video surveillance.** / Chaudhary, Sunil; Berki, Eleni; Nykänen, Pirkko; Zolotavkin, Yevhen; Helenius, Marko; Kela, Juha.

2016 22nd International Conference on Virtual System & Multimedia (VSMM). IEEE, 2017.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

**From theories to game mechanics : Developing a game for training rational numbers.** / Kiili, Kristian.

Proceedings of the 11th European Conference on Games Based Learning, ECGBL 2017. Academic Conferences and Publishing International Limited, 2017. p. 328-334.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

**Full-reference metrics multidistortional analysis.** / Ieremeiev, Oleg; Lukin, Vladimir; Ponomarenko, Nikolay; Egiazarian, Karen.

Image Processing: Algorithms and Systems XV. 2017. p. 27-35 (Electronic Imaging).

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

**BM3D-HVS : Content-Adaptive denoising for improved visual quality.** / Egiazarian, Karen; Danielyan, Aram; Ponomarenko, Nikolay; Foia, Alessandro; Ieremeiev, Oleg; Lukin, Vladimir.

Image Processing: Algorithms and Systems XV. 2017. p. 48-55 (Electronic Imaging).

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

**Can e-government solutions enhance the work in municipalities?: empirical evidence from case lupapiste.** / Jussila, Jari ; Helander, Nina; Lehtonen, Timo; Kallio, Julius; Sillanpää, Virpi .

AcademicMindtrek '16: Proceedings of the 20th International Academic Mindtrek Conference: Oct. 17th-19th, 2016. ACM, 2016. p. 20-25.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

**The 5C categorization of social media tools.** / Vuori, Vilma; Jussila, Jari .

Proceedings of the 20th International Academic Mindtrek Conference: Oct. 17th-19th, 2016, Tampere, Finland. ACM, 2016. p. 26-33.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

**Temporal dimensions of affect in user experience of digital news in the field.** / Jumisko-Pyykkö, Satu; Pesonen, Emilia; Väättäjä, Heli.

AcademicMindtrek 2016 - Proceedings of the 20th International Academic Mindtrek Conference. ACM, 2016. p. 192-197.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

**Software visualization today - Systematic literature review.** / Mattila, Anna-Liisa; Ihantola, Petri; Kilamo, Terhi; Luoto, Antti ; Nurminen, Mikko; Väättäjä, Heli.

AcademicMindtrek 2016 - Proceedings of the 20th International Academic Mindtrek Conference. ACM, 2016. p. 262-271.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

**Participatory development of user experience design guidelines for a B2B company.** / Hildén, Elina; Väättäjä, Heli; Roto, Virpi; Uusitalo, Kero.

AcademicMindtrek '16 Proceedings of the 20th International Academic Mindtrek Conference . ACM, 2016. p. 49-58.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

**Focusing on user experience and business models in startups : Investigation of two-dimensional value creation.** /

Hokkanen, Laura; Xu, Yueqiang; Väänänen, Kaisa.

AcademicMindtrek 2016 - Proceedings of the 20th International Academic Mindtrek Conference. ACM, 2016. p. 59-67.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

**Casual immersive viewing with smartphones.** / Rakkolainen, Ismo; Raisamo, Roope; Turk, Matthew; Höllerer, Tobias; Palovuori, Karri.

AcademicMindtrek 2016 - Proceedings of the 20th International Academic Mindtrek Conference. ACM, 2016. p. 449-452.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

**Challenges and capabilities of conductive polymeric materials for electromechanical stimulation of stem cells : A case study.** / Viehrig, Marlitt; Tuukkanen, Sampo; Kallio, Pasi.

2016 International Conference on Manipulation, Automation and Robotics at Small Scales, MARSS 2016. Institute of Electrical and Electronics Engineers Inc., 2016.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

**Using elicitation studies to generate collocated interaction methods.** / Jokela, Tero; Rezaei, Parisa Pour; Väänänen, Kaisa.

Proceedings of the 18th International Conference on Human-Computer Interaction with Mobile Devices and Services Adjunct, MobileHCI 2016. ACM, 2016. p. 1129-1133.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

**Sparse modelling and predictive coding of subaperture images for lossless plenoptic image compression.** / Helin, Petri; Astola, Pekka; Rao, Bhaskar; Tabus, Ioan.

2016 3DTV-Conference: The True Vision - Capture, Transmission and Display of 3D Video, 3DTV-CON 2016. IEEE COMPUTER SOCIETY PRESS, 2016.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

**Decoding complexity reduction in projection-based light-field 3D displays using self-contained HEVC tiles.** / Zare, Alireza; Kovacs, Peter Tamas; Aminlou, Alireza; Hannuksela, Miska M.; Gotchev, Atanas.

2016 3DTV-Conference: The True Vision - Capture, Transmission and Display of 3D Video, 3DTV-CON 2016. IEEE COMPUTER SOCIETY PRESS, 2016.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

**An evaluation framework for cross-platform mobile app development tools : A case analysis of adobe PhoneGap framework.** / Ahti, Ville; Hyrynsalmi, Sami; Nevalainen, Olli.

Computer Systems and Technologies 17th International Conference, CompSysTech 2016 - Proceedings. Vol. 1164 Association for Computing Machinery, 2016. p. 41-48.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

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

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

**Exploring the use of deprecated PHP releases in the wild internet : Still a LAMP issue?** / Ruohonen, Jukka; Hyrynsalmi, Sami; Leppänen, Ville.  
6th International Conference on Web Intelligence, Mining and Semantics, WIMS 2016. Association for Computing Machinery, 2016. 26.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

**Feasibility characterization of cryptographic primitives for constrained (wearable) IoT devices.** / Ometov, Aleksandr; Masek, Pavel; Malina, Lukas; Florea, Roman; Hosek, Jiri; Andreev, Sergey; Hajny, Jan; Niutanen, Jussi; Koucheryavy, Yevgeni.  
IEEE International Conference on Pervasive Computing and Communication Workshops, PerCom Workshops 2016. IEEE, 2016.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

**Patterns for subsidiaries as innovation tools.** / Leppänen, Marko; Hokkanen, Laura.  
Proceedings of the 10th Travelling Conference on Pattern Languages of Programs, VikingPLoP 2016. ACM, 2016. a7.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

**Patterns for safety system bus architecture.** / Rauhamäki, Jari.

Proceedings of the 10th Travelling Conference on Pattern Languages of Programs, VikingPLoP 2016. ACM, 2016. a4.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

**Learnings from the Finnish game industry.** / Helenius, Marko; Kettunen, Petri; Frank, Lauri.

Proceedings of the 10th Travelling Conference on Pattern Languages of Programs, VikingPLoP 2016. ACM, 2016. a12.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

**Increasing collocated people's awareness of the mobile user's activities : A field trial of social displays.** / Jarusriboonchai, Pradthana; Malapaschas, Aris; Olsson, Thomas; Väänänen, Kaisa.

CSCW '16 - Proceedings of the 19th ACM Conference on Computer-Supported Cooperative Work & Social Computing . ACM, 2016. p. 1691-1702.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

**Social display...We can see what you are doing on your mobile device.** / Jarusriboonchai, Pradthana; Malapaschas, Aris; Olsson, Thomas; Väänänen, Kaisa.

CSCW '16 Proceedings of the 19th ACM Conference on Computer-Supported Cooperative Work & Social Computing. ACM, 2016. p. 53-56.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

**Who is moving - User or device? Experienced quality of mobile 3D video in vehicles.** / Jumisko-Pyykkö, Satu; Markopoulos, Panos; Hannuksela, Miska M.

ACE 2015 - 12th Advances in Computer Entertainment Technology Conference, Proceedings. ACM, 2015. 13.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

**Need to touch, wonder of discovery, and social capital : Experiences with interactive playful seats.** / Nummenmaa, Timo; Tyni, Heikki; Kultima, Annakaisa; Alha, Kati; Holopainen, Jussi.

ACE 2015 - 12th Advances in Computer Entertainment Technology Conference, Proceedings. Vol. 16-19-November-2015 Association for Computing Machinery, 2015. 10.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

**Antroposeeni - A mixed reality game.** / Luhtala, Matti; Karvonen, Tuomo; Pylväs, Jyrki; Ala-Kokko, Aki; Magica, Reina; Takeda, Yuko; Turunen, Markku.

ACADEMICMINDTREK 2015 - Proceedings of the 19th International Academic Mindtrek Conference. Association for Computing Machinery, Inc, 2015. p. 211-213.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

**OASIS deck of cards - House of colleagues : A playful.** / Nummenmaa, Timo; Kultima, Annakaisa; Kankainen, Ville; Savolainen, Sampo; Syvänen, Antti; Alha, Kati; Mäyrä, Frans.

ACADEMICMINDTREK 2015 - Proceedings of the 19th International Academic Mindtrek Conference. Association for Computing Machinery, Inc, 2015. p. 2-9.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

**Mobiscool : 1<sup>st</sup> workshop on mobile, social and culturally oriented learning.** / Nanavati, A. A.; Rajput, N.; Turunen, M.; Knoche, H.; Rehm, M.

MobileHCI 2015 - Proceedings of the 17th International Conference on Human-Computer Interaction with Mobile Devices and Services Adjunct. Association for Computing Machinery, Inc, 2015. p. 1187-1190.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

**Delivering directional haptic cues through eyeglasses and a seat.** / Nukarinen, Tomi; Rantala, Jussi; Farooq, Ahmed; Raisamo, Roope.

IEEE World Haptics Conference, WHC 2015. Institute of Electrical and Electronics Engineers Inc., 2015. p. 345-350 7177736.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

**Sequential and simultaneous tactile stimulation with multiple actuators on head, neck and back for gaze cuing.** / Spakov, Oleg; Rantala, Jussi; Isokoski, Poika.

IEEE World Haptics Conference, WHC 2015. Institute of Electrical and Electronics Engineers Inc., 2015. p. 333-338 7177734.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

**Three patterns for user involvement in startups.** / Hokkanen, Laura; Leppänen, Marko.

Proceedings of the 20th European Conference on Pattern Languages of Programs, EuroPLoP 2015. ACM, 2015. a51.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

**Four patterns for internal startups.** / Leppänen, Marko; Hokkanen, Laura.

Proceedings of the 20th European Conference on Pattern Languages of Programs, EuroPLoP 2015. ACM, 2015. a5.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

**A comparison of security assurance support of agile software development methods.** / Rindell, Kalle; Hyrynsalmi, Sami; Leppänen, Ville.

Computer Systems and Technologies - 16th International Conference, CompSysTech 2015: Proceedings. Vol. 1008 Association for Computing Machinery, 2015. p. 61-68.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

**Glance awareness and gaze interaction in smartwatches.** / Akkil, Deepak; Kangas, Jari; Rantala, Jussi; Isokoski, Poika; Špakov, Oleg; Raisamo, Roope.

CHI 2015 - Extended Abstracts Publication of the 33rd Annual CHI Conference on Human Factors in Computing Systems: Crossings. Vol. 18 Association for Computing Machinery, 2015. p. 1271-1276.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

**Intentstreams : Smart parallel search streams for branching exploratory search.** / Andolina, Salvatore; Klouche, Khalil; Peltonen, Jaakko; Hoque, Mohammad; Ruotsalo, Tuukka; Cabral, Diogo; Klami, Arto; Glowacka, Dorota; Floréen, Patrik; Jacucci, Giulio.

IUI 2015 - Proceedings of the 20th ACM International Conference on Intelligent User Interfaces. Vol. 2015-January Association for Computing Machinery, 2015. p. 300-305.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

**Adaptive spatial resolution selection for stereoscopic video compression with MV-HEVC : A frequency based approach.** / Aflaki, Payman; Hannuksela, Miska M.; Gabbouj, Moncef.  
2014 IEEE International Symposium on Multimedia, ISM 2014, 10-12 Dec. 2014, Taichung. The Institute of Electrical and Electronics Engineers, Inc., 2015. p. 267-270.  
Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific > peer-review

**Salient event detection in basketball mobile videos.** / Cricri, Francesco; Mate, Sujeet; Curcio, Igor D D; Gabbouj, Moncef.  
Proceedings - 2014 IEEE International Symposium on Multimedia, ISM 2014. The Institute of Electrical and Electronics Engineers, Inc., 2015. p. 63-70 7032995.  
Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific > peer-review

**Stereoscopic video description for human action recognition.** / Mademlis, Ioannis; Iosifidis, Alexandros; Tefas, Anastasios; Nikolaidis, Nikos; Pitas, Ioannis.  
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.  
Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific > peer-review

**The Fuzzy Front End of Experience Design: Eliciting and Communicating Experience Goals.** / Varsaluoma, Jari; Väättäjä, Heli; Kaasinen, Eija; Karvonen, Hannu; Lu, Yichen.  
OzCHI '15 - Proceedings of the Annual Meeting of the Australian Special Interest Group for Computer Human Interaction . ACM, 2015. p. 324-332.  
Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific > peer-review

**User Experience of Digital News : Two Semi-long Term Field Studies.** / Pesonen, Emilia; Jumisko-Pyykkö, Satu; Väättäjä, Heli.  
14th International Conference on Mobile and Ubiquitous Multimedia (MUM 2015). ACM, 2015. p. 51-63 .  
Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific > peer-review

**Supplier's Expectations on Usage Data Analytics of Complex Industrial Systems.** / Väättäjä, Heli; Heimonen, Tomi; Tiitinen, Katariina; Hakulinen, Jaakko; Turunen, Markku.  
ISPIM Innovation Summit 2015. ed. / Eelko Huizingh; Steffen Conn; Iain Bitran. International Society for Professional Innovation Management ISPIM, 2015.  
Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific > peer-review

**Design principles for collaboration platforms for open education.** / AbuJarour, Safa'a; Pirkkalainen, Henri; Pawlowski, Jan; Bick, Markus; Bagucanskyte, Migle; Frankenberg, Anna; Hudak, Raimund; Makropoulos, Constantinos; Pappa, Dimitra; Pitsilis, Vassilis; Tannhauser, Anne Christin; Trepule, Elena; Vidalis, Aristedes; Volungeviciene, Airina.  
CSEDU 2015 - 7th International Conference on Computer Supported Education, Proceedings. Vol. 1 SCITEPRESS, 2015. p. 349-359.  
Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific > peer-review

**Embroidered ground plane implementation for wearable UHF RFID patch tag antennas.** / Koski, K.; Ukkonen, L.; Sydanheimo, L.; Rahmat-Samii, Y.  
2014 USNC-URSI Radio Science Meeting (Joint with AP-S Symposium), USNC-URSI 2014 - Proceedings. Institute of Electrical and Electronics Engineers Inc., 2014. p. 274 6955657.  
Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific > peer-review

**Information wall : Evaluation of a gesture-controlled public display.** / Mäkelä, Ville; Heimonen, Tomi; Luhtala, Matti; Turunen, Markku.  
ACE 2014 - 11th Advances in Computer Entertainment Technology Conference, Proceedings. Vol. 2014-November Association for Computing Machinery, 2014. p. 228-231.  
Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific > peer-review

**Goofy Mus, grumpy Mur and dirty Muf : Talking playful seats with personalities.** / Kultima, Annakaisa; Nummenmaa, Timo; Tyni, Heikki; Alha, Kati; Mayra, Frans.  
ACE 2014 - 11th Advances in Computer Entertainment Technology Conference, Workshops Proceedings. Vol. 11-14-November-2014 Association for Computing Machinery, 2014. a9.



**DYNAMO sound engine - Exploring the aesthetics of dynamic sound interactions.** / Luhtala, Matti; Heimonen, Tomi; Mäkelä, Ville; Keskinen, Tuuli; Turunen, Markku; Saarinen, Santeri.

MINDTREK 2014 - Proceedings of the 18th International Academic MindTrek Conference: "Media Business, Management, Content and Services". Association for Computing Machinery, Inc, 2014. p. 159-166.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

**Body-touching : An embodied interaction technique for health information systems in developing regions.** / Sharma, Sumita; Srivastava, Saurabh; Sorathia, Keyur; Hakulinen, Jaakko; Heimonen, Tomi; Turunen, Markku; Rajput, Nitendra.

MINDTREK 2014 - Proceedings of the 18th International Academic MindTrek Conference: "Media Business, Management, Content and Services". Association for Computing Machinery, Inc, 2014. p. 49-56.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

**Email intensity, productivity and control in the knowledge worker's performance on the desktop.** / Franssila, Heljä; Okkonen, Jussi; Savolainen, Reijo.

MINDTREK 2014 - Proceedings of the 18th International Academic MindTrek Conference: "Media Business, Management, Content and Services". Association for Computing Machinery, Inc, 2014. p. 19-22.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

**Games and energy : Profiling power usage during play.** / Salmela, Jussi Matti; Thanisch, Peter; Sotamaa, Olli; Niemi, Tapio.

MINDTREK 2014 - Proceedings of the 18th International Academic MindTrek Conference: "Media Business, Management, Content and Services". Association for Computing Machinery, Inc, 2014. p. 192-199.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

**MurMur Moderators, the talking playful seats.** / Nummenmaa, Timo; Kultima, Annakaisa; Tyni, Heikki; Alha, Kati.

MINDTREK 2014 - Proceedings of the 18th International Academic MindTrek Conference: "Media Business, Management, Content and Services". Association for Computing Machinery, Inc, 2014. p. 231-237.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

**The fuzzy front end of experience design.** / Kaasinen, Eija; Väättäjä, Heli; Karvonen, Hannu; Lu, Yichen.

Proceedings of the NordiCHI 2014: The 8th Nordic Conference on Human-Computer Interaction: Fun, Fast, Foundational. New York, NY : ACM, 2014. p. 797-800 (Nordic conference on human-computer interaction).

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

**Gaze-contingent scrolling and reading patterns.** / Räihä, Kari Jouko; Sharmin, Selina.

Proceedings of the NordiCHI 2014: The 8th Nordic Conference on Human-Computer Interaction: Fun, Fast, Foundational. Association for Computing Machinery, Inc, 2014. p. 65-68.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

**Using gaze gestures with haptic feedback on glasses.** / Kangas, Jari; Akkil, Deepak; Rantala, Jussi; Isokoski, Poika; Majaranta, Päivi; Raisamo, Roope.

Proceedings of the NordiCHI 2014: The 8th Nordic Conference on Human-Computer Interaction: Fun, Fast, Foundational. Association for Computing Machinery, Inc, 2014. p. 1047-1050.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

**Effects of haptic feedback on gaze based auto scrolling.** / Käki, Karoliina; Špakov, Oleg; Majaranta, Päivi; Kangas, Jari.

Proceedings of the NordiCHI 2014: The 8th Nordic Conference on Human-Computer Interaction: Fun, Fast, Foundational. Association for Computing Machinery, Inc, 2014. p. 947-950.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

**Human-technology choreographies : Re-thinking body, movement and space in interaction design.** / Pirhonen, Antti; Parviainen, Jaana; Tuuri, Kai; Turunen, Markku; Heimonen, Tomi.

Proceedings of the NordiCHI 2014: The 8th Nordic Conference on Human-Computer Interaction: Fun, Fast, Foundational. Association for Computing Machinery, Inc, 2014. p. 841-844.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

**Seniors and text messaging on mobile touchscreen phones.** / Övermark, Reetta; Isokoski, Poika; Ovaska, Salla.  
Proceedings of the NordiCHI 2014: The 8th Nordic Conference on Human-Computer Interaction: Fun, Fast, Foundational. Association for Computing Machinery, Inc, 2014. p. 967-970.  
Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific > peer-review

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

**Tut MUVIS image retrieval system proposal for MSR-Bing challenge 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.  
IEEE International Conference on Multimedia and Expo, ICME 2014, Chengdu, China, July 14-18, 2014. Piscataway : Institute of Electrical and Electronics Engineers IEEE, 2014. p. 1-6.  
Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific > peer-review

**Two patterns for minimizing human resources in a startup.** / Leppänen, Marko.  
VikingPLoP 2014 Proceedings of the 8th Nordic Conference on Pattern Languages of Programs (VikingPLoP) . ACM, 2014. 4.  
Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific > peer-review

**Patterns for controlling chaos in a startup.** / Eloranta, Veli-Pekka.  
VikingPLoP 2014 Proceedings of the 8th Nordic Conference on Pattern Languages of Programs. Vol. 2014-April Association for Computing Machinery, 2014. p. 1-8 (ACM International Conference Proceeding Series).  
Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific > peer-review

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

**Browsing patterns in retrieved documents.** / Kekäläinen, Jaana; Arvola, Paavo; Kumpulainen, Sanna.  
Proceedings of the 5th Information Interaction in Context Symposium, IliX 2014. Association for Computing Machinery, 2014. p. 299-302.  
Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific > peer-review

**Real-time hidden gaze point correction.** / Špakov, Oleg; Gizatdinova, Yulia.  
Proceedings of the Symposium on Eye Tracking Research and Applications, ETRA 2014. Association for Computing Machinery, 2014. p. 291-294.  
Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific > peer-review

**Gaze gestures and haptic feedback in mobile devices.** / Kangas, Jari; Akkil, Deepak; Rantala, Jussi; Isokoski, Poika; Majaranta, Päivi; Raisamo, Roope.  
CHI 2014: One of a CHIInd - Conference Proceedings, 32nd Annual ACM Conference on Human Factors in Computing Systems. Association for Computing Machinery, 2014. p. 435-438.  
Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific > peer-review

**Glasses with haptic feedback of gaze gestures.** / Rantala, Jussi; Isokoski, Poika; Kangas, Jari; Raisamo, Roope; Akkil, Deepak.  
CHI EA 2014: One of a ChiNd - Extended Abstracts, 32nd Annual ACM Conference on Human Factors in Computing Systems. Association for Computing Machinery, 2014. p. 1597-1602.  
Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific > peer-review

**Layers of user expectations of future technologies : An early framework.** / Olsson, Thomas.

CHI EA 2014: One of a ChiNd - Extended Abstracts, 32nd Annual ACM Conference on Human Factors in Computing Systems. Association for Computing Machinery, 2014. p. 1957-1962.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

**The usability of text entry systems now and in the future.** / Clawson, James; Isokoski, Poika; Brewster, Stephen; Oulasvirta, Antti; Dunlop, Mark; Vertanen, Keith; Kristensson, Per Ola; Waller, Annalu.

CHI EA 2014: One of a ChiNd - Extended Abstracts, 32nd Annual ACM Conference on Human Factors in Computing Systems. Association for Computing Machinery, 2014. p. 1139-1142.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

**TraQuMe : A tool for measuring the gaze tracking quality.** / Akkil, Deepak; Isokoski, Poika; Kangas, Jari; Rantala, Jussi; Raisamo, Roope.

Proceedings of the Symposium on Eye Tracking Research and Applications, ETRA 2014. Association for Computing Machinery, 2014. p. 327-330.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

**Look and lean : Accurate head-assisted eye pointing.** / Špakov, Oleg; Isokoski, Poika; Majaranta, Päivi.

Proceedings of the Symposium on Eye Tracking Research and Applications, ETRA 2014. Association for Computing Machinery, 2014. p. 35-42.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

**Preferences for touch gestures in audio-tactile communication.** / Rantala, Jussi; Raisamo, Roope.

IEEE Haptics Symposium 2014, HAPTICS 2014 - Proceedings. IEEE COMPUTER SOCIETY PRESS, 2014. p. 247-250 6775462.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

**Haptic feedback to gaze events.** / Kangas, Jari; Rantala, Jussi; Majaranta, Päivi; Isokoski, Poika; Raisamo, Roope.

Proceedings of the Symposium on Eye Tracking Research and Applications, ETRA 2014. Association for Computing Machinery, 2014. p. 11-18.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

**Bars, pies, doughnuts & tables - Visualization of proportions.** / Siirtola, Harri.

Proceedings of the 28th International BCS Human Computer Interaction Conference: Sand, Sea and Sky - Holiday HCI, HCI 2014. BCS Learning and Development Ltd., 2014. p. 241-245.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

**IntentRadar : Search user interface that anticipates user's search intents.** / Ruotsalo, Tuukka; Peltonen, Jaakko; Eugster, Manuel J A; Glowacka, Dorota; Reijonen, Aki; Jacucci, Giulio; Myllymäki, Petri; Kaski, Samuel.

CHI EA 2014: One of a ChiNd - Extended Abstracts, 32nd Annual ACM Conference on Human Factors in Computing Systems. Association for Computing Machinery, 2014. p. 455-458.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

**Controlled experiments comparing fault-tree-based safety analysis techniques.** / Mouaffo, Adrien; Taibi, Davide; Jamboti, Kavyashree.

18th International Conference on Evaluation and Assessment in Software Engineering, EASE 2014. Association for Computing Machinery (ACM), 2014. a46.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

**Integration of BIM and automation in high-rise building construction.** / Heikkilä, R.; Malaska, M.; Törmänen, P.; Keyack, Chris.

ISARC 2013 - 30th International Symposium on Automation and Robotics in Construction and Mining, Held in Conjunction with the 23rd World Mining Congress. 2013. p. 1171-1176.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

**Virtual stick in caret positioning on touch screens.** / Scheibel, Jean Baptiste; Pierson, Cyril; Martin, Benoît; Godard, Nathan; Fucella, Vittorio; Isokoski, Poika.  
IHM 2013 - Actes de la 25ieme Conference Francophone sur l'Interaction Homme-Machine. 2013. p. 107-114.  
Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

**Mobile dictation for healthcare professionals.** / Keskinen, Tuuli; Melto, Aleks; Hakulinen, Jaakko; Turunen, Markku; Saarinen, Santeri; Pallos, Tamás; Kallioniemi, Pekka; Danielsson-Ojala, Riitta; Salanterä, Sanna.  
Proceedings of the 12th International Conference on Mobile and Ubiquitous Multimedia, MUM 2013. 2013. a41.  
Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

**Seek'N'Share : A platform for location-based collaborative mobile learning.** / Heimonen, Tomi; Turunen, Markku; Kangas, Sanna; Pallos, Tamás; Pekkala, Pasi; Saarinen, Santeri; Tiitinen, Katariina; Keskinen, Tuuli; Luhtala, Matti; Koskinen, Olli; Okkonen, Jussi; Raisamo, Roope.  
Proceedings of the 12th International Conference on Mobile and Ubiquitous Multimedia, MUM 2013. 2013. a38.  
Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

**Evaluating the experiential user experience of public display applications in the wild.** / Keskinen, Tuuli; Hakulinen, Jaakko; Heimonen, Tomi; Turunen, Markku; Sharma, Sumita; Miettinen, Toni; Luhtala, Matti.  
Proceedings of the 12th International Conference on Mobile and Ubiquitous Multimedia, MUM 2013. 2013. a7.  
Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

**Evaluating landmark attraction model in collaborative wayfinding in virtual learning environments.** / Kallioniemi, Pekka; Hakulinen, Jaakko; Keskinen, Tuuli; Turunen, Markku; Heimonen, Tomi; Pihkala-Posti, Laura; Uusi-Mäkelä, Mikael; Hietala, Pentti; Okkonen, Jussi; Raisamo, Roope.  
Proceedings of the 12th International Conference on Mobile and Ubiquitous Multimedia, MUM 2013. 2013. a33.  
Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

**Reading on-screen text with gaze-based auto-scrolling.** / Sharmin, Selina; Špakov, Oleg; Rähä, Kari Jouko.  
Proceedings of the 2013 Conference on Eye Tracking South Africa, ETSA 2013. 2013. p. 24-31.  
Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

**SIMPE : 8th workshop on speech and sound in mobile and pervasive environments.** / Nanavati, Amit A.; Rajput, Nitendra; Srivastava, Saurabh; Erkut, Cumhur; Jylhä, Antti; Rudnicky, Alexander I.; Serafin, Stefania; Turunen, Markku.  
MobileHCI 2013 - Proceedings of the 15th International Conference on Human-Computer Interaction with Mobile Devices and Services. 2013. p. 626-629.  
Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

**Mixed reality with multimodal head-mounted pico projector.** / Sand, Antti; Rakkolainen, Ismo.  
Proceedings of the Virtual Reality International Conference on Laval Virtual, VRIC 2013. 2013. 14.  
Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

**WeSlide : Gestural text entry for elderly users of interactive television.** / Godard, Nathan; Pecci, Isabelle; Isokoski, Poika.  
Proceedings of the 11th European Conference on Interactive TV and Video, EuroTV 2013. 2013. p. 55-58.  
Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

**Gestures and widgets : Performance in text editing on multi-touch capable mobile devices.** / Fucella, Vittorio; Isokoski, Poika; Martin, Benoît.  
CHI 2013: Changing Perspectives, Conference Proceedings - The 31st Annual CHI Conference on Human Factors in Computing Systems. 2013. p. 2785-2794.  
Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

**Front-camera video recordings as emotion responses to mobile photos shared within close-knit groups.** / Cui, Yanqing; Kangas, Jari; Holm, Jukka; Grassel, Guido.  
CHI 2013: Changing Perspectives, Conference Proceedings - The 31st Annual CHI Conference on Human Factors in Computing Systems. 2013. p. 981-990.  
Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

**'Aie-studio' - A pragmatist aesthetic approach for procedural sound design.** / Luhtala, Matti; Turunen, Markku; Hakulinen, Jaakko; Keskinen, Tuuli.

Proceedings of the 8th Audio Mostly: A Conference on Interaction with Sound, AM 2013 - In Cooperation with ACM SIGCHI. Association for Computing Machinery, 2013. 7.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

**Multiplicative update for fast optimization of information retrieval based neighbor embedding.** / Peltonen, Jaakko; Lin, Ziyuan.

2013 IEEE International Workshop on Machine Learning for Signal Processing - Proceedings of MLSP 2013. 2013. 6661899.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

**Scalable optimization of neighbor embedding for visualization.** / Yang, Zhirong; Peltonen, Jaakko; Kaski, Samuel.

30th International Conference on Machine Learning, ICML 2013. PART 1. ed. International Machine Learning Society (IMLS), 2013. p. 786-794.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

**Recording and analyzing in-browser programming sessions.** / Helminen, Juha; Ihantola, Petri; Karavirta, Ville.

Proceedings - 13th Koli Calling International Conference on Computing Education Research, Koli Calling 2013. 2013. p. 13-22.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

**How to study programming on mobile touch devices - Interactive Python code exercises.** / Ihantola, Petri; Helminen, Juha; Karavirta, Ville.

Proceedings - 13th Koli Calling International Conference on Computing Education Research, Koli Calling 2013. 2013. p. 51-58.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

**The innovations in learning and education SAVI.** / Hamilton, Eric; Multisilta, Jari.

Computer-Supported Collaborative Learning Conference, CSCL. Vol. 2 2013. p. 511-512.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

**Briefing news reporting with mobile assignments - Perceptions, needs and challenges.** / Väättäjä, Heli; Egglestone, Paul.

Proceedings of the ACM 2012 conference on Computer Supported Cooperative Work CSCW'12 Seattle, WA, USA, February 11-15, 2012. New York, NY : ACM, 2012. p. 485-494 (ACM Conference on Computer Supported Cooperative Work).

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

**Location-based crowdsourcing of hyperlocal news - Dimensions of participation preferences.** / Väättäjä, Heli; Vainio, Teija; Sirkkunen, Esa.

Proceedings of the 17th ACM international conference on Supporting group work, GROUP '12, October 28-31, 2012, Sanibel Island, FL, USA. New York, NY : ACM, 2012. p. 85-94 (ACM International Conference on Supporting Group Work).

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

**Towards usability heuristics for games utilizing speech recognition.** / Halonen, Aki; Hyrynsalmi, Sami; Kimppa, Kai K.; Knuutila, Timo; Smed, Jouni; Hakonen, Harri.

4th Asian Conference on Intelligent Games and Simulation, GAME-ON ASIA 2012 - 4th Asian Simulation Technology Conference, ASTEC 2012. EUROSIS, 2012. p. 51-55.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

**Model for landmark highlighting in mobile web services.** / Kallioniemi, Pekka; Turunen, Markku.

Proceedings of the 11th International Conference on Mobile and Ubiquitous Multimedia, MUM 2012. 2012. 25.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

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

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

**Continuous Edgewise : Dictionary-based disambiguation instead of explicit segmentation by the user.** / Martin, Benoît; Isokoski, Poika; Karmann, Gregory; Rollinger, Thomas.

Proceedings of the Working Conference on Advanced Visual Interfaces, AVI 2012. 2012. p. 357-364.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

**Comparison of video-based pointing and selection techniques for hands-free text entry.** / Gizatdinova, Yulia; Špakov, Oleg; Surakka, Veikko.

Proceedings of the Working Conference on Advanced Visual Interfaces, AVI 2012. 2012. p. 132-139.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

**Gaze gestures or dwell-based interaction?** / Hyrskykari, Aulikki; Istance, Howell; Vickers, Stephen.

Proceedings - ETRA 2012: Eye Tracking Research and Applications Symposium. 2012. p. 229-232.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

**Comparison of eye movement filters used in HCI.** / Špakov, Oleg.

Proceedings - ETRA 2012: Eye Tracking Research and Applications Symposium. 2012. p. 281-284.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

**Simple gaze gestures and the closure of the eyes as an interaction technique.** / Heikkilä, Henna; Rähä, Kari Jouko.

Proceedings - ETRA 2012: Eye Tracking Research and Applications Symposium. 2012. p. 147-154.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

**The validity of using non-representative users in gaze communication research.** / Istance, Howell; Vickers, Stephen; Hyrskykari, Aulikki.

Proceedings - ETRA 2012: Eye Tracking Research and Applications Symposium. 2012. p. 233-236.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

**Designing and evaluating text entry methods.** / Kristensson, Per Ola; Clawson, James; Dunlop, Mark; Isokoski, Poika; Roark, Brian; Vertanen, Keith; Waller, Annalu; Wobbrock, Jacob.

Extended Abstracts - The 30th ACM Conference on Human Factors in Computing Systems, CHI 2012. 2012. p. 2747-2750.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

**An exploratory study of eye typing fundamentals : Dwell time, text entry rate, errors, and workload.** / Rähä, Kari Jouko; Ovaska, Salla.

Conference Proceedings - The 30th ACM Conference on Human Factors in Computing Systems, CHI 2012. 2012. p. 3001-3010.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

**Haptic visualization of bathymetric data.** / Evreinova, Tatiana V.; Evreinov, Grigori; Raisamo, Roope.

Haptics Symposium 2012, HAPTICS 2012 - Proceedings. 2012. p. 359-364 6183815.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

**Efficient optimization for data visualization as an information retrieval task.** / Peltonen, Jaakko; Georgatzis, Konstantinos.

2012 IEEE International Workshop on Machine Learning for Signal Processing - Proceedings of MLSP 2012. 2012. 6349797.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

**Reducing the number of unit tests with design by contract.** / Hakonen, Harri; Hyrnsalmi, Sami; Järvi, Antero.

Computer Systems and Technologies - 12th International Conference, CompSysTech'11 - Proceedings. Vol. 578 2011. p. 161-166.

**Interpretation of ambiguous images inspected by the StickGrip device.** / Evreinova, Tatiana V.; Evreinov, Grigori; Raisamo, Roope.

Proceedings of the IADIS International Conference Interfaces and Human Computer Interaction 2011, Part of the IADIS Multi Conference on Computer Science and Information Systems 2011, MCCSIS 2011. 2011. p. 209-216.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

**SiMPE : 6th Workshop on Speech in Mobile and Pervasive Environments.** / Nanavati, A. A.; Rajput, N.; Rudnicky, A. I.; Turunen, M.; Kun, A. I.; Paek, T.; Tashev, I.

Mobile HCI 2011 - 13th International Conference on Human-Computer Interaction with Mobile Devices and Services. 2011. p. 733-735.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

**Multimodal multi-device program guide for smart conferences.** / Turunen, Markku; Hella, Juho; Miettinen, Toni; Valkama, Pellervo; Hakulinen, Jaakko; Raisamo, Roope.

Mobile HCI 2011 - 13th International Conference on Human-Computer Interaction with Mobile Devices and Services. 2011. p. 679-682.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

**We need to talk : Rediscovering audio for universal access (A panel).** / Brewster, Stephen; Jones, Matt; Murray-Smith, Roderick; Nanavati, A. A.; Rajput, N.; Schmidt, Albrecht; Turunen, M.

Mobile HCI 2011 - 13th International Conference on Human-Computer Interaction with Mobile Devices and Services. 2011. p. 715-716.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

**Presenting spatial tactile messages with a hand-held device.** / Rantala, Jussi; Myllymaa, Kalle; Raisamo, Roope; Lylykangas, Jani; Surakka, Veikko; Shull, Pete; Cutkosky, Mark.

2011 IEEE World Haptics Conference, WHC 2011. 2011. p. 101-106 5945469.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

**Comparison of gaze-to-objects mapping algorithms.** / Špakov, Oleg.

Proceedings of the 1st Conference on Novel Gaze-Controlled Applications, NGCA'11. 2011. 6.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

**Designing tactile feedback for piezo buttons.** / Lylykangas, Jani; Surakka, Veikko; Salminen, Katri; Raisamo, Jukka; Laitinen, Pauli; Rönning, Kasper; Raisamo, Roope.

CHI 2011 - 29th Annual CHI Conference on Human Factors in Computing Systems, Conference Proceedings and Extended Abstracts. 2011. p. 3281-3284.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

**On the costs of multiple trajectory pointing methods.** / Quinn, Philip; Cockburn, Andy; Rähkä, Kari Jouko; Delamarche, Jérôme.

CHI 2011 - 29th Annual CHI Conference on Human Factors in Computing Systems, Conference Proceedings and Extended Abstracts. 2011. p. 859-862.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

**Squeeze vs. tilt : A comparative study using continuous tactile feedback.** / Hoggan, Eve; Trendafilov, Dari; Ahmaniemi, Teemu; Raisamo, Roope.

CHI EA 2011 - 29th Annual CHI Conference on Human Factors in Computing Systems, Conference Proceedings and Extended Abstracts. 2011. p. 1309-1314.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

**Facial expression classification based on local spatiotemporal edge and texture descriptors.** / Gizatdinova, Yulia; Surakka, Veikko; Zhao, Guoying; Mäkinen, Erno; Raisamo, Roope.

Selected Papers from the Proceedings of the 7th International Conference on Methods and Techniques in Behavioral Research - Digital Edition, MB'10. 2011. 21.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

**Of discs, boxes and cartridges : The material life of digital games.** / Toivonen, Saara; Sotamaa, Olli.

Proceedings of DiGRA 2011 Conference: Think Design Play. 2011.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

**The making of Nordic larp : Documenting a tradition of ephemeral co-creative play.** / Stenros, Jaakko; Montola, Markus.

Proceedings of DiGRA 2011 Conference: Think Design Play. 2011.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

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

Proceedings of DiGRA 2011 Conference: Think Design Play. 2011.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

**Framework for designing and evaluating game achievements.** / Hamari, Juho; Eranti, Veikko.

Proceedings of DiGRA 2011 Conference: Think Design Play. 2011.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

**Social and privacy aspects of a system for collaborative public expression.** / Holopainen, Jussi; Lucero, Andrés; Saarenpää, Hannamari; Nummenmaa, Timo; Ali, Abdallah El; Jokela, Tero.

Proceedings of the 8th International Conference on Advances in Computer Entertainment Technology, ACE 2011. 2011. 23.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

**Forward kinematic analysis of a planar cable driven redundant parallel manipulator using force sensors.** / Oftadeh, Reza; Aref, Mohammad M.; Taghirad, Hamid D.

IEEE/RSJ 2010 International Conference on Intelligent Robots and Systems, IROS 2010 - Conference Proceedings. 2010. p. 2295-2300 5649471.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

**Explicit dynamics formulation of Stewart-Gough platform : A Newton-Euler approach.** / Oftadeh, Reza; Aref, Mohammad M.; Taghirad, Hamid D.

IEEE/RSJ 2010 International Conference on Intelligent Robots and Systems, IROS 2010 - Conference Proceedings. 2010. p. 2772-2777 5653157.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

**Information interaction in molecular medicine : Integrated use of multiple channels.** / Kumpulainen, Sanna; Järvelin, Kalervo.

IliX 2010 - Proceedings of the 2010 Information Interaction in Context Symposium. 2010. p. 95-104.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

**Mobile Journalist Toolkit : A field study on producing news articles with a mobile device.** / Jokela, Tero; Väättäjä, Heli; Koponen, Tiina.

MindTrek 2009 - 13th International Academic MindTrek Conference: Everyday Life in the Ubiquitous Era. 2009. p. 45-52.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

**The SenseCam as a tool for task observation.** / Byrne, Daragh; Doherty, Aiden R.; Jones, Gareth J F; Smeaton, Alan F.; Kumpulainen, Sanna; Järvelin, Kalervo.

Proceedings of the 22nd British HCI Group Annual Conference on People and Computers: Culture, Creativity, Interaction, BCS HCI 2008. Vol. 2 BRITISH COMPUTER SOCIETY, 2008. p. 19-22.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

**HCI and homecare : Connecting families and clinicians.** / Mamykina, Lena; Bardram, Jakob E.; Korhonen, Ilkka; Mynatt, Elizabeth; Pratt, Wanda.

Conference on Human Factors in Computing Systems - Proceedings. 2004. p. 1715-1716.



Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

**Preface : Special Issue on 'New Hydraulic Components for Tough Robots'**. / Suzumori, Koichi; Hyon, Sang Ho; Semini, Claudio; Mattila, Jouni; Kanda, Takefumi.

In: Advanced Robotics, Vol. 32, No. 9, 03.05.2018.

Research output: Contribution to journal › Editorial › Scientific

**Designing interactive systems for work engagement.** / Roto, Virpi; Clemmensen, Torkil; Väättäjä, Heli; Law, Effie Lai Chong.

In: Human Technology, Vol. 14, No. 2, 2018, p. 135-139.

Research output: Contribution to journal › Editorial › Scientific

**Social human-robot interaction in the wild : A workshop proposal for academic mindtrek 2020.** / Niemelä, Marketta; Ahtinen, Aino; Turunen, Markku.

AcademicMindtrek 2020 - Proceedings of the 23rd International Academic Mindtrek Conference: January 2020, Tampere. ACM, 2020. p. 168-169.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific

**Special Issue on Designing Interactive Systems for Work Engagement.** / Roto, Virpi (Editor); Clemmensen, Torkil (Editor); Väättäjä, Heli (Editor); Law, Effie Lai Chong (Editor).

In: Human Technology, Vol. 14, No. 2, 2018, p. 135-257.

Research output: Contribution to journal › Special issue › Scientific › peer-review

**Increasing user and customer understanding through rapid ethnography in emerging markets.** / Väättäjä, Heli; Haggrén, Jaakko.

User Experience and Usability in Complex Systems - UXUS: FIMECC Publications Series No. 8, 2010-2015. 2015. p. 99-101 (FIMECC Publication series; Vol. 8).

Research output: Chapter in Book/Report/Conference proceeding › Chapter › Professional

**Benefits for supplier and customer with the help of logged usage data.** / Väättäjä, Heli; Heimonen, Tomi; Tiitinen, Katariina; Hakulinen, Jaakko; Turunen, Markku.

User Experience and Usability in Complex Systems - UXUS: FIMECC Publications Series No. 8, 2010-2015. 2015. p. 110-112 (FIMECC Publication series; Vol. 8).

Research output: Chapter in Book/Report/Conference proceeding › Chapter › Professional

**UX sensors - Understanding the UX of complex systems through usage analysis.** / Heimonen, Tomi; Tiitinen, Katariina; Turunen, Markku; Keskinen, Tuuli; Väättäjä, Heli; Varsaluoma, Jari; Jokinen, Jussi; Nieminen, Harri.

User Experience and Usability in Complex Systems - UXUS: FIMECC Publications Series No. 8, 2010-2015. 2015. p. 113-115 (FIMECC Publication series; Vol. 8).

Research output: Chapter in Book/Report/Conference proceeding › Chapter › Professional

**Getting started with the experience design process.** / Varsaluoma, Jari; Väättäjä, Heli; Kaasinen, Eija; Karvonen, Hannu; Lu, Yichen.

User Experience and Usability in Complex Systems - UXUS: FIMECC Publications Series No. 8, 2010-2015. 2015. p. 125-127 (FIMECC Publication series; Vol. 8).

Research output: Chapter in Book/Report/Conference proceeding › Chapter › Professional

**Characterizing Context of Use in Mobile Work.** / Väättäjä, Heli.

Proceedings of Human Work Interaction Design HWID, IFIP TC 13.6 working group. University of West London, 2015. 14.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Professional

**Understanding engagement in web-based Acceptance and Commitment Therapy interventions for parental burnout: Usage, dose-response and user experiences.** / Kaipainen, Kirsikka; Sairanen, Essi; Lappalainen, Päivi.

2019. Paper presented at ACBS World Conference, Dublin, Ireland.

Research output: Other conference contribution › Paper, poster or abstract › Scientific

**Digital services and youth participation in processes of social change: World Café workshops in Finland.** / Meriläinen, Niina; Pietilä, Iikka; Varsaluoma, Jari.  
2018. 1-30 Paper presented at European Consortium for Political Research General Conference, Hamburg, Germany.  
Research output: Other conference contribution › Paper, poster or abstract › Scientific

**The nexus between social media behaviour, negative consumer emotions and brand disloyalty.** / Jalonen, Harri; Jussila, Jari .  
2016. Paper presented at 12th European Conference on Management Leadership and Governance, Bucharest, Romania.  
Research output: Other conference contribution › Paper, poster or abstract › Scientific

**Neural networks, cell cultures and some older work on data analysis.** / Acimovic, Jugoslava.  
2009. Paper presented at Okinawa Computational Neuroscience Course 2009, Japan.  
Research output: Other conference contribution › Paper, poster or abstract › Scientific