

The effect of challenge-based gamification on learning: An experiment in the context of statistics education

Legaki, N. Z., Xi, N., Hamari, J., Karpouzis, K. & Assimakopoulos, V., 1 Dec 2020, In : International Journal of Human Computer Studies. 144, 102496.

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

Soft robotic gripper with compliant cell stacks for industrial part handling

Netzev, M., Angleraud, A. & Pieters, R., 1 Oct 2020, In : IEEE Robotics and Automation Letters. 5, 4, p. 6821-6828 8 p.

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, H. & Hamari, J., 2020, In : Computers in Human Behavior. 102, p. 14-21 8 p.

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

From Chance to Serendipity: Knowledge Workers' Experiences of Serendipitous Social Encounters

Olshannikova, E., Olsson, T., Huhtamäki, J., Paasovaara, S. & Kärkkäinen, H., 2020, In : Advances in Human-Computer Interaction. 2020, 1827107.

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, H. & Hamari, J., 2020, In : User Modeling and User-Adapted Interaction.

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

Does esports spectating influence game consumption?

Macey, J., Tyrväinen, V., Pirkkalainen, H. & Hamari, J., 2020, In : Behaviour and Information Technology. 17 p.

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

ClothFace: A Passive RFID-Based Human-Technology Interface on a Shirtsleeve

Mehmood, A., He, H., Chen, X., Vianto, A., Vianto, V., Buruk, O. O. & Virkki, J., 2020, In : Advances in Human-Computer Interaction. 2020, 8 p., 8854042.

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

Probabilistic approach to physical object disentangling

Pajarinen, J., Arenz, O., Peters, J. & Neumann, G., 2020, In : IEEE Robotics and Automation Letters. 5, 4, p. 5510-5517 8 p.

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

Multi-sensor next-best-view planning as matroid-constrained submodular maximization

Lauri, M., Pajarinen, J., Peters, J. & Frintrop, S., 2020, In : IEEE Robotics and Automation Letters. 5, 4, p. 5323-5330 8 p.

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

Understanding decision-making in recruitment: Opportunities and challenges for information technology

Koivunen, S., Olsson, T., Olshannikova, E. & Lindberg, A., 1 Dec 2019, In : Proceedings of the ACM on Human-Computer Interaction. 3, GROUP, 22 p., 242.

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, H. & Hamari, J., 1 Oct 2019, In : International Journal of Human Computer Studies. 130, p. 73-85 13 p.

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

Diffusion of innovation: Case of co-design of cabins in mobile work machine industry

Ellman, A. & Tiainen, T., 1 Jun 2019, In : Computers. 8, 2, 39.

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, Y. V. & Samouylov, K. E., 1 Jan 2019, In : Informatsionno-Upravliaiushchie Sistemy. 5, p. 51-63 13 p.

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, J., Malik, A., Koski, J. & Johri, A., 2019, In : International Journal of Human-Computer Interaction. 35, 9

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

DNA Molecular Storage System: Transferring Digitally Encoded Information through Bacterial Nanonetworks

Tavella, F., Giaretta, A., Dooley-Cullinane, T. M., Conti, M., Coffey, L. & Balasubramaniam, S., 2019, In : IEEE Transactions on Emerging Topics in Computing .

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

Teaching semantics and skills for human-robot collaboration

Angleraud, A., Houbre, Q. & Pieters, R., 2019, In : Paladyn. 10, 1, p. 318-329 12 p.

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., 2019, In : COMPUTER METHODS IN BIOMECHANICS AND BIOMEDICAL ENGINEERING. 12 p.

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

Investigating relationships between video gaming, spectating esports, and gambling

Macey, J. & Hamari, J., Mar 2018, In : Computers in Human Behavior. 80, p. 344-353 10 p.

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

Social motivations of live-streaming viewer engagement on Twitch

Hilvert-Bruce, Z., Neill, J. T., Sjöblom, M. & Hamari, J., 14 Feb 2018, In : Computers in Human Behavior. 84, p. 58-67 10 p.

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

Gamification, quantified-self or social networking? Matching users' goals with motivational technology

Hamari, J., Hassan, L. & Dias, A., 2018, In : User Modeling and User-Adapted Interaction. 28, 1, p. 35-74 40 p.

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, B., Riar, M., Hamari, J. & Maedche, A., 1 Dec 2017, In : Computers in Human Behavior. 77, p. 169-183 15 p.

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

Gamified crowdsourcing: Conceptualization, literature review, and future agenda

Morschheuser, B., Hamari, J., Koivisto, J. & Maedche, A., 1 Oct 2017, In : International Journal of Human-Computer Studies. 106, p. 26-43 18 p.

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, M., Törhönen, M., Hamari, J. & Macey, J., 1 Aug 2017, In : Computers in Human Behavior. 73, p. 161-171 11 p.

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

Do badges increase user activity? A field experiment on the effects of gamification

Hamari, J., 1 Jun 2017, In : Computers in Human Behavior. 71, p. 469-478 10 p.

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

Assessing fraction knowledge by a digital game

Ninaus, M., Kiili, K., McMullen, J. & Moeller, K., 1 May 2017, In : Computers in Human Behavior. 70, p. 197-206 10 p.
Research output: Contribution to journal › Article › Scientific › peer-review

Emotional Reactions to Point-Light Display Animations

Venesvirta, H., Surakka, V., Gizatdinova, Y., Lylykangas, J., Špakov, O., Verho, J., Vetek, A. & Lekkala, J., 16 Jun 2016, In : Interacting with Computers. 28, 4, p. 521-531 11 p.
Research output: Contribution to journal › Article › Scientific › peer-review

Exploring the role of ten universal values in using products and services

Partala, T. & Kujala, S., 1 May 2016, In : Interacting with Computers. 28, 3, p. 311-331 21 p.
Research output: Contribution to journal › Article › Scientific › peer-review

Graph Embedded Extreme Learning Machine

Iosifidis, A., Tefas, A. & Pitas, I., 2016, In : IEEE Transactions on Cybernetics. 46, 1, p. 311 - 324
Research output: Contribution to journal › Article › Scientific › peer-review

Defining user experience goals to guide the design of industrial systems

Kaasinen, E., Roto, V., Hakulinen, J., Heimonen, T., Jokinen, J. P. P., Karvonen, H., Keskinen, T., Koskinen, H., Lu, Y., Saariluoma, P., Tokkonen, H. & Turunen, M., 3 Oct 2015, In : Behaviour and Information Technology. 34, 10, p. 976-991 16 p.
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, H., Jussila, J. & Huhtamäki, J., Oct 2015, In : Computers in Human Behavior. 51, Part B, p. 1154–1162 9 p.
Research output: Contribution to journal › Article › Scientific › peer-review

"Working out for likes": An empirical study on social influence in exercise gamification

Hamari, J. & Koivisto, J., 1 Sep 2015, In : Computers in Human Behavior. 50, p. 333-347 15 p.
Research output: Contribution to journal › Article › Scientific › peer-review

Understanding the most influential user experiences in successful and unsuccessful technology adoptions

Partala, T. & Saari, T., 25 Jul 2015, In : Computers in Human Behavior. 53, p. 381-395 15 p.
Research output: Contribution to journal › Article › Scientific › peer-review

Railway fastener inspection by real-time machine vision

Aytekin, C., Rezaeitabar, Y., Dogru, S. & Ulusoy, I., 1 Jul 2015, In : IEEE Transactions on Systems, Man, and Cybernetics: Systems. 45, 7, p. 1101-1107 7 p.
Research output: Contribution to journal › Article › Scientific › peer-review

Quality measures for improving technology trees

Heinimäki, T. J. & Elomaa, T., 2015, In : International Journal of Computer Games Technology. 2015, 10 p., 975371.
Research output: Contribution to journal › Article › Scientific › peer-review

Vibrotactile Stimulation as an Instructor for Mimicry-Based Physical Exercise

Lylykangas, J., Heikkinen, J., Surakka, V., Raisamo, R., Myllymaa, K. & Laitinen, A., 2015, In : Advances in Human Computer Interaction. 953794.
Research output: Contribution to journal › Article › Scientific › peer-review

A Barrier framework for open e-learning in public administrations

Stoffregen, J., Pawlowski, J. M. & Pirkkalainen, H., 2015, In : Computers in Human Behavior. 51, B, p. 674-684 11 p.
Research output: Contribution to journal › Article › Scientific › peer-review

Dynamic text presentation in print interpreting - An eye movement study of reading behaviour

Sharmin, S., Špakov, O. & Rähkä, K. J., 2015, In : International Journal of Human-Computer Studies. 78, p. 17-30 14 p.
Research output: Contribution to journal › Article › Scientific › peer-review

Class-Specific Reference Discriminant Analysis With Application in Human Behavior Analysis

Iosifidis, A., Tefas, A. & Pitas, I., 25 Dec 2014, In : IEEE Transactions on Human-Machine Systems. 45, 3, 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, T., Hakulinen, J., Turunen, M., Heimonen, T., Sand, A., Paavilainen, J., Parviainen, J., Yrjänäinen, S., Mäyrä, F., Okkonen, J. & Raisamo, R., 1 Dec 2014, In : Entertainment Computing. 5, 4, p. 475-484 10 p.
Research output: Contribution to journal › Article › Scientific › peer-review

Global social knowledge management - Understanding barriers for global workers utilizing social software

Pirkkalainen, H. & Pawlowski, J. M., Jan 2014, In : Computers in Human Behavior. 30, p. 637-647 11 p.
Research output: Contribution to journal › Article › Scientific › peer-review

Head movement and facial expressions as game input

Ilves, M., Gizatdinova, Y., Surakka, V. & Vankka, E., 2014, In : Entertainment Computing. 5, 3, p. 147-156 10 p.
Research output: Contribution to journal › Article › Scientific › peer-review

Demographic differences in perceived benefits from gamification

Koivisto, J. & Hamari, J., 2014, In : Computers in Human Behavior. 35, p. 179-188 10 p.
Research output: Contribution to journal › Article › Scientific › peer-review

Transparency of intentions decreases privacy concerns in ubiquitous surveillance

Oulasvirta, A., Suomalainen, T., Hamari, J., Lampinen, A. & Karvonen, K., 2014, In : CYBERPSYCHOLOGY BEHAVIOR AND SOCIAL NETWORKING. 17, 10
Research output: Contribution to journal › Article › Scientific › peer-review

Measuring flow in gamification: Dispositional Flow Scale-2

Hamari, J. & Koivisto, J., 2014, In : Computers in Human Behavior. 40, p. 133-143 11 p.
Research output: Contribution to journal › Article › Scientific › peer-review

Comparison of Saltation, Amplitude Modulation, and a Hybrid Method of Vibrotactile Stimulation

Raisamo, J., Raisamo, R. & Surakka, V., Oct 2013, In : IEEE Transactions on Haptics. 6, 4, p. 517-521 5 p., 6517847.
Research output: Contribution to journal › Article › Scientific › peer-review

An evaluation of the virtual curvature with the StickGrip haptic device: A case study

Evreinova, T. V., Evreinov, G. & Raisamo, R., Jun 2013, In : Universal Access in the Information Society. 12, 2, p. 161-173 13 p.
Research output: Contribution to journal › Article › Scientific › peer-review

Virtual sectioning and haptic exploration of volumetric shapes in the absence of visual feedback

Evreinova, T. V., Evreinov, G. & Raisamo, R., 2013, In : Advances in Human Computer Interaction. 2013, 740324.
Research output: Contribution to journal › Article › Scientific › peer-review

Touch gestures in communicating emotional intention via vibrotactile stimulation

Rantala, J., Salminen, K., Raisamo, R. & Surakka, V., 2013, In : International Journal of Human-Computer Studies. 71, 6, p. 679-690 12 p.
Research output: Contribution to journal › Article › Scientific › peer-review

SymbolChat: A flexible picture-based communication platform for users with intellectual disabilities

Keskinen, T., Heimonen, T., Turunen, M., Rajaniemi, J. P. & Kauppinen, S., Sep 2012, In : Interacting with Computers. 24, 5, p. 374-386 13 p.
Research output: Contribution to journal › Article › Scientific › peer-review

Barriers to task-based information access in molecular medicine

Kumpulainen, S. & Järvelin, K., Jan 2012, In : JOURNAL OF THE ASSOCIATION FOR INFORMATION SCIENCE AND TECHNOLOGY. 63, 1, p. 86-97 12 p.

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

Tactile modulation of emotional speech samples

Salminen, K., Surakka, V., Lylykangas, J., Rantala, J., Ahmaniemi, T., Raisamo, R., Trendafilov, D. & Kildal, J., 2012, In : Advances in Human Computer Interaction. 2012, 741304.

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

Heart rate responses to synthesized affective spoken words

Ilves, M. & Surakka, V., 2012, In : Advances in Human Computer Interaction. 2012, 158487.

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

Novel approaches to crawling important pages early

Alam, M. H., Ha, J. W. & Lee, S. K., 2012, In : Knowledge and Information Systems. 33, 3, p. 707-734 28 p.

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

Integrating discrete events and continuous head movements for video-based interaction techniques

Evreinova, T. V., Evreinov, G. & Raisamo, R., Nov 2011, In : Behaviour and Information Technology. 30, 6, p. 739-746 8 p.

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

Interaction strategies for an affective conversational agent

Smith, C., Crook, N., Dobnik, S., Charlton, D., Boye, J., Pulman, S., Santos de la Camara, R., Turunen, M., Benyon, D., Bradley, J., Gambäck, B., Hansen, P., Mival, O., Webb, N. & Cavazza, M., Oct 2011, In : Presence: Teleoperators and Virtual Environments. 20, 5, p. 395-411 17 p.

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

Multimodal and mobile conversational Health and Fitness Companions

Turunen, M., Hakulinen, J., Ståhl, O., Gambäck, B., Hansen, P., Rodríguez Gancedo, M. C., De La Cámara, R. S., Smith, C., Charlton, D. & Cavazza, M., Apr 2011, In : Computer Speech and Language. 25, 2, p. 192-209 18 p.

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

Tailored gamification: A review of literature

Klock, A. C. T., Gasparini, I., Pimenta, M. S. & Hamari, J., 1 Dec 2020, In : International Journal of Human Computer Studies. 144, 102495.

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

Why do people buy virtual goods: A meta-analysis

Hamari, J. & Keronen, L., 1 Jun 2017, In : Computers in Human Behavior. 71, p. 59-69 11 p.

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, M. & Surakka, V., 1 Feb 2013, In : Behaviour and Information Technology. 32, 2, p. 117-131 15 p.

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

At least nine ways to play: Approaching gamer mentalities

Kallio, K. P., Mäyrä, F. & Kaipainen, K., Jul 2011, In : GAMES AND CULTURE: A JOURNAL OF INTERACTIVE MEDIA. 6, 4, p. 327-353 27 p.

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

Some background on dialogue management and conversational speech for dialogue systems

Wilks, Y., Catizone, R., Worgan, S. & Turunen, M., Apr 2011, In : *Computer Speech and Language*. 25, 2, p. 128-139 12 p.

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

Mille-Oeille: An architectural response to zoos' obsolescence in post-anthropocentric times

Rubio Hernandez, R. & Pérez-Guembe, E., 2019, (Submitted) *DATA & DESIGN: Methods of Computational Design Strategies*. Del Signore, M. & Diniz, N. (eds.). Routledge

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

Collaborative Writing and Knowledge Creation in a Social Media Online Community

Suominen, A. & Jussila, J., 17 Nov 2018, *The Future of Innovation and Technology in Education: Policies and Practices for Teaching and Learning Excellence (Emerald Studies in Higher Education, Innovation and Technology)*. Visvizi, A., Lytras, M. D. & Daniela, L. (eds.). Emerald Group Publishing Ltd., p. 95-109 15 p.

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

Mille-Oeille: Environmental Zoo

Rubio Hernandez, R. & Pérez-Guembe, E., 2018, *Time, Space, Existence*. GAA Foundation, 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

Väätäjä, H., 2015, *Emerging Perspectives on the Design, Use, and Evaluation of Mobile and Handheld Devices*. Lumsden, J. (ed.). IGI Global, p. 218-238 21 p.

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

Kvazaar 2.0: Fast and efficient open-source HEVC inter encoder

Lemmetti, A., Viitanen, M., Mercat, A. & Vanne, J., 27 May 2020, *MMSys 2020 - Proceedings of the 2020 Multimedia Systems Conference*. ACM, p. 237-242 6 p.

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

Deep audio-visual saliency: Baseline model and data

Tavakoli, H. R., Borji, A., Kannala, J. & Rahtu, E., 6 Feb 2020, *Proceedings ETRA 2020 Short Papers - ACM Symposium on Eye Tracking Research and Applications, ETRA 2020*. Spencer, S. N. (ed.). ACM, 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, A., Ahtinen, A. & Kaipainen, K., 29 Jan 2020, *AcademicMindtrek 2020 - Proceedings of the 23rd International Academic Mindtrek Conference: January 2020, Tampere*. ACM, p. 1-9 9 p.

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, X. & Zhang, B., 29 Jan 2020, *AcademicMindtrek 2020 - Proceedings of the 23rd International Academic Mindtrek Conference: January 29-30, 2020, Tampere, Finland*. ACM, p. 65-73 9 p.

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, N., Kaipainen, K., Kähkönen, K. & Ahtinen, A., 29 Jan 2020, *AcademicMindtrek 2020 - Proceedings of the 23rd International Academic Mindtrek Conference: January 2020, Tampere*. ACM, p. 10-19 10 p.

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, H., Koivisto, J. & Hamari, J., 29 Jan 2020, *AcademicMindtrek 2020 - Proceedings of the 23rd International Academic Mindtrek Conference: January 2020, Tampere*. ACM, p. 74-82 9 p.

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, M. & Hamari, J., 29 Jan 2020, *AcademicMindtrek 2020 - Proceedings of the 23rd International Academic Mindtrek Conference: January 2020, Tampere*. ACM, p. 120-125 6 p.

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

Innovation challenges as a novel multidisciplinary learning platform

Jokiniemi, S., Myllärniemi, J., Poranen, T. & Vuorenmaa, M., 29 Jan 2020, *AcademicMindtrek 2020 - Proceedings of the 23rd International Academic Mindtrek Conference: January 2020, Tampere*. ACM, p. 145-148 4 p.

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, J., Väänänen, K. & Battah, A., 2020, *AcademicMindtrek 2020 - Proceedings of the 23rd International Academic Mindtrek Conference: January 2020, Tampere*. ACM, p. 134-141 8 p.

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

Promoting local culture and enriching airport experiences through interactive storytelling

Burova, A., Kelling, C., Keskinen, T., Hakulinen, J., Kallioniemi, P., Väätäjä, H. & Turunen, M., 26 Nov 2019, *MUM 2019 - 18th International Conference on Mobile and Ubiquitous Multimedia, Proceedings*. Jacucci, G., Paterno, F., Rohs, M. & Santoro, C. (eds.). Association for Computing Machinery, 7 p. 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, M. T., Michalas, A., Groot, A. E. D., Marquering, H. A. & Olabbariaga, S. D., 1 Oct 2019, *2019 IEEE International Conference on E-Health Networking, Application and Services, HealthCom 2019*. IEEE, 9009598

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

Social features in hybrid board game marketing material

Nummenmaa, T. & Kankainen, V., 26 Aug 2019, *Proceedings of the 14th International Conference on the Foundations of Digital Games, FDG 2019*. Khosmood, F., Pirker, J., Apperley, T. & Deterding, S. (eds.). ACM, 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, C., Peltonen, J. & Nummenmaa, T., 26 Aug 2019, *Proceedings of the 14th International Conference on the Foundations of Digital Games, FDG 2019*. Khosmood, F., Pirker, J., Apperley, T. & Deterding, S. (eds.). ACM, 22

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

Real-time online drilling vibration analysis using data mining

Zare, M., Huova, M., Visa, A. & Launis, S., 19 Jul 2019, *Proceedings of the 2019 2nd International Conference on Data Science and Information Technology, DSIT 2019*. ACM, p. 175-180 6 p.

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

Public and open HEVC encoding service in the cloud

Altonen, A., Viitanen, M., Räsänen, J., Mercat, A. & Vanne, J., 18 Jun 2019, *Proceedings of the 10th ACM Multimedia Systems Conference, MMSys 2019*. ACM, p. 300-303 4 p.

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, R. & Olsson, T., 3 Jun 2019, *C&T 2019 - 9th International Conference on Communities and Technologies, Conference Proceedings*. Tellioglu, H. & Cech, F. (eds.). ACM, p. 283-294 12 p.

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

Thin form-factor super multiview head-up display system

Akpinar, U., Sahin, E., Suominen, O. & Gotchev, A., 13 Jan 2019, *Stereoscopic Displays and Applications XXX . (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, M., Miroshnichenko, O., Lukin, V. & Egiazarian, K., 13 Jan 2019, *Image Processing: Algorithms and Systems XVII*. (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, M., Katkovnik, V. & Egiazarian, K., 13 Jan 2019, *Image Processing: Algorithms and Systems XVII*. (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, O., Lukin, V., Ponomarenko, N. & Egiazarian, K., 13 Jan 2019, *Image Processing: Algorithms and Systems XVII*. (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, A., 2019, *ICGDA 2019: Proceedings of the 2019 2nd International Conference on Geoinformatics and Data Analysis*. ACM, p. 130-137 8 p.

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

Human-robot interactive learning architecture using ontologies and symbol manipulation

Angleraud, A., Houbre, Q., Kyrki, V. & Pieters, R., 6 Nov 2018, *RO-MAN 2018 - 27th IEEE International Symposium on Robot and Human Interactive Communication: August 27-31, 2018, Nanjing, China*. IEEE, p. 384-389 6 p. (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, A., 10 Oct 2018, *Mindtrek 2018 - Proceedings of the 22nd International Academic Mindtrek Conference*. ACM, p. 110-117 8 p.

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., 10 Oct 2018, *Mindtrek 2018 - Proceedings of the 22nd International Academic Mindtrek Conference*. ACM, p. 222-227 6 p.

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, A., Kelling, C., Hakulinen, J., Kallioniemi, P., Keskinen, T., Turunen, M. & Väättäjä, H., 10 Oct 2018, *Mindtrek 2018 - Proceedings of the 22nd International Academic Mindtrek Conference*. ACM, p. 182-191 10 p.

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, C., Karhu, J., Kauhanen, O., Turunen, M., Väättäjä, H. & Lindqvist, V., 10 Oct 2018, *Mindtrek 2018 - Proceedings of the 22nd International Academic Mindtrek Conference*. ACM, p. 258-261 4 p.

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, J., Väättäjä, H., Heimonen, T., Tiitinen, K., Hakulinen, J., Turunen, M. & Nieminen, H., 10 Oct 2018, *Mindtrek 2018 - Proceedings of the 22nd International Academic Mindtrek Conference*. ACM, p. 172-181 10 p.

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, K., Rantala, J., Isokoski, P., Lehtonen, M., Müller, P., Karjalainen, M., Väliäho, J., Kontunen, A., Nieminen, V., Leivo, J., Telembeci, A. A., Lekkala, J., Kallio, P. & Surakka, V., 2 Oct 2018, *ICMI 2018 - Proceedings of the 2018 International Conference on Multimodal Interaction*. ACM, p. 73-77 5 p.

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

Analysis of accommodation cues in holographic stereograms

Mäkinen, J., Sahin, E. & Gotchev, A., 1 Oct 2018, *2018 - 3DTV-Conference: The True Vision - Capture, Transmission and Display of 3D Video, 3DTV-CON 2018*. IEEE, 8478586

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

Viewing simulation of integral imaging display based on wave optics

Akpınar, U., Sahin, E. & Gotchev, A., 1 Oct 2018, *2018 - 3DTV-Conference: The True Vision - Capture, Transmission and Display of 3D Video, 3DTV-CON 2018*. IEEE, 8478568

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

Understanding animals: A critical challenge in ACI

Aspling, F., Juhlin, O. & Väättäjä, H., 29 Sep 2018, *NordiCHI 2018: Revisiting the Life Cycle - Proceedings of the 10th Nordic Conference on Human-Computer Interaction*. ACM, p. 148-160 13 p.

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

Designing for experiences with socially interactive robots

Obaid, M., Kaipainen, K., Ocnarescu, I. & Ahtinen, A., 29 Sep 2018, *NordiCHI 2018: Revisiting the Life Cycle - Proceedings of the 10th Nordic Conference on Human-Computer Interaction*. ACM, p. 948-951 4 p.

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, M., Hassan, L., Macey, J., Törhönen, M. & Hamari, J., 18 Jul 2018, *Proceedings of the 9th International Conference on Social Media and Society, SMSociety 2018*. ACM, p. 160-167 8 p.

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

Activation game for older adults - Development and initial user experiences

Merilampi, S., Koivisto, A. & Virkki, J., 29 Jun 2018, *2018 IEEE 6th International Conference on Serious Games and Applications for Health, SeGAH 2018*. IEEE, p. 1-5 5 p.

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, A., Erkaya, M., Buruk, O. T. & Göksun, T., 19 Jun 2018, *IDC 2018 - Proceedings of the 2018 ACM Conference on Interaction Design and Children*. ACM, p. 644-649 6 p.

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

Optimized viewport dependent streaming of stereoscopic omnidirectional video

Naik, D., Curcio, I. D. D. & Toukoma, H., 12 Jun 2018, *Proceedings of the 23th ACM Workshop on Packet Video, PV 2018*. ACM, p. 37-42 6 p.

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

Fast and easy live video service setup using lightweight virtualization

Heikkinen, A., Pääkkönen, P., Viitanen, M., Vanne, J., Riikonen, T. & Bakanoglu, K., 12 Jun 2018, *Proceedings of the 9th ACM Multimedia Systems Conference, MMSys 2018*. ACM, p. 487-489 3 p.

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, S., 30 May 2018, *Proceedings of the 19th Annual International Conference on Digital Government Research: Governance in the Data Age, DG.O 2018*. ACM, 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, M., Özcan, O., Beşevli, C. & Buruk, O. T., 30 May 2018, *DIS 2018 - Companion Publication of the 2018 Designing Interactive Systems Conference*. ACM, p. 277-281 5 p.

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, A., Alonso, M. B. & Jumisko-Pyykkö, S., 20 Apr 2018, *Proceedings of the 2018 CHI Conference on Human Factors in Computing Systems*. ACM, 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, V., Mahdiani, S., Viik, J., Oksala, N. & Vehkaoja, A., 2 Apr 2018, *2018 IEEE 15th International Conference on Wearable and Implantable Body Sensor Networks, BSN 2018*. IEEE, p. 30-33 4 p.

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, K. K. & Palomäki, J., 2 Feb 2018, *3DTV-CON 2017 - 3D True Vision v2: Research and Applications in Future 3D Media*. IEEE, p. 1-4 4 p.

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

Viewport-dependent delivery schemes for stereoscopic panoramic video

Ghaznavi-Youvalari, R., Hannuksela, M. M., Aminlou, A. & Gabbouj, M., 2 Feb 2018, *3DTV-CON 2017 - 3D True Vision v2: Research and Applications in Future 3D Media*. IEEE, p. 1-4 4 p.

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, M., Katkovnik, V. & Egiazarian, K., 2018, *Electronic Imaging: Image Processing: Algorithms and Systems XVI*. Society for Imaging Science and Technology

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

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, M., Gapon, N., Voronin, V. & Egiazarian, K., 2018, *Electronic Imaging: Image Processing: Algorithms and Systems XVI*. Society for Imaging Science and Technology

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

Robust linearized combined metrics of image visual quality

Ieremeiev, O., Lukin, V., Ponomarenko, N. & Egiazarian, K., 2018, *Electronic Imaging: Image Processing: Algorithms and Systems XVI*. Society for Imaging Science and Technology

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

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, O., Ponomarenko, M., Lukin, V. & Egiazarian, K., 2018, *Electronic Imaging: Image Processing: Algorithms and Systems XVI*. Society for Imaging Science and Technology

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, E., Vagharshakyan, S., Bregovic, R., Lee, G. & Gotchev, A., 2018, *Electronic Imaging: Stereoscopic Displays and Applications XXIX*. Society for Imaging Science and Technology, p. 1441-1445 5 p.

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, S., Afanasyeva, A., Voloshina, N. & Ometov, A., 13 Nov 2017, *Proceedings of the 2nd International Conference on Advanced Wireless Information, Data, and Communication Technologies, AWICT 2017*. ACM

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, I. D. D., Toukoma, H. & Naik, D., 27 Oct 2017, *AltMM 2017 - Proceedings of the 2nd International Workshop on Multimedia Alternate Realities, co-located with MM 2017*. ACM, p. 9-14 6 p.

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., 19 Jul 2017, *2017 IEEE International Symposium on Broadband Multimedia Systems and Broadcasting, BMSB 2017*. IEEE

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., 19 Jul 2017, *2017 IEEE International Symposium on Broadband Multimedia Systems and Broadcasting, BMSB 2017*. IEEE

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., 19 Jul 2017, *2017 IEEE International Symposium on Broadband Multimedia Systems and Broadcasting, BMSB 2017*. IEEE

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, J., Niemi, H. & Hamilton, E., 27 Jun 2017, *IDC 2017 - Proceedings of the 2017 ACM Conference on Interaction Design and Children*. ACM, p. 693-696 4 p.

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, R. & Olsson, T., 26 Jun 2017, *C&T 2017 - 8th International Conference on Communities and Technologies, Conference Proceedings*. ACM, p. 2-10 9 p.

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., 15 Jun 2017, *Proceedings of the 21st International Conference on Evaluation and Assessment in Software Engineering, EASE 2017*. Association for Computing Machinery, Vol. Part F128635. p. 31-40 10 p.

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, D., Lenarduzzi, V., Ahmad, M. O. & Liukkunen, K., 15 Jun 2017, *Proceedings of the 21st International Conference on Evaluation and Assessment in Software Engineering, EASE 2017*. Association for Computing Machinery, Vol. Part F128635. p. 258-263 6 p.

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, D., Lenarduzzi, V., Pahl, C. & Janes, A., 22 May 2017, *Proceedings of the XP2017 Scientific Workshops, XP 2017*. Association for Computing Machinery, Vol. Part F129907. a23

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

Effects of extrinsic noise are promoter kinetics dependent

Bahrudeen, M. N. M., Startceva, S. & Ribeiro, A. S., 14 May 2017, *Proceedings of the 2017 9th International Conference on Bioinformatics and Biomedical Technology, ICBBT 2017*. ACM, p. 44-47 4 p.

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

Modular audio story platform for museums

Salo, K., Zinin, V., Bauters, M. & Mikkonen, T., 7 Mar 2017, *IUI 2017 - Companion of the 22nd International Conference on Intelligent User Interfaces*. ACM, p. 113-116 4 p.

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, S., Berki, E., Nykänen, P., Zolotavkin, Y., Helenius, M. & Kela, J., 23 Feb 2017, *2016 22nd International Conference on Virtual System & Multimedia (VSMM)*. IEEE

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, K., 2017, *Proceedings of the 11th European Conference on Games Based Learning, ECGBL 2017*. Academic Conferences and Publishing International Limited, p. 328-334 7 p.

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

Full-reference metrics multidistortional analysis

Ieremeiev, O., Lukin, V., Ponomarenko, N. & Egiazarian, K., 2017, *Image Processing: Algorithms and Systems XV*. p. 27-35 9 p. (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, K., Danielyan, A., Ponomarenko, N., Foia, A., Ieremeiev, O. & Lukin, V., 2017, *Image Processing: Algorithms and Systems XV*. p. 48-55 8 p. (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, J., Helander, N., Lehtonen, T., Kallio, J. & Sillanpää, V., 17 Oct 2016, *AcademicMindtrek '16: Proceedings of the 20th International Academic Mindtrek Conference: Oct. 17th-19th, 2016*. ACM, p. 20-25 6 p.

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

The 5C categorization of social media tools

Vuori, V. & Jussila, J., 17 Oct 2016, *Proceedings of the 20th International Academic Mindtrek Conference: Oct. 17th-19th, 2016, Tampere, Finland*. ACM, p. 26-33 8 p.

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, S., Pesonen, E. & Väättäjä, H., 17 Oct 2016, *AcademicMindtrek 2016 - Proceedings of the 20th International Academic Mindtrek Conference*. ACM, p. 192-197

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

Software visualization today - Systematic literature review

Mattila, A-L., Ihanntola, P., Kilamo, T., Luoto, A., Nurminen, M. & Väättäjä, H., 17 Oct 2016, *AcademicMindtrek 2016 - Proceedings of the 20th International Academic Mindtrek Conference*. ACM, p. 262-271 10 p.

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, E., Väättäjä, H., Roto, V. & Uusitalo, K., 17 Oct 2016, *AcademicMindtrek '16 Proceedings of the 20th International Academic Mindtrek Conference*. ACM, p. 49-58 10 p.

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, L., Xu, Y. & Väänänen, K., 17 Oct 2016, *AcademicMindtrek 2016 - Proceedings of the 20th International Academic Mindtrek Conference*. ACM, p. 59-67 9 p.

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

Casual immersive viewing with smartphones

Rakkolainen, I., Raisamo, R., Turk, M., Höllerer, T. & Palovuori, K., 17 Oct 2016, *AcademicMindtrek 2016 - Proceedings of the 20th International Academic Mindtrek Conference*. ACM, p. 449-452 4 p.

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, M., Tuukkanen, S. & Kallio, P., 6 Sep 2016, *2016 International Conference on Manipulation, Automation and Robotics at Small Scales, MARSS 2016*. Institute of Electrical and Electronics Engineers Inc., 5 p.

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

Using elicitation studies to generate collocated interaction methods

Jokela, T., Rezaei, P. P. & Väänänen, K., 6 Sep 2016, *Proceedings of the 18th International Conference on Human-Computer Interaction with Mobile Devices and Services Adjunct, MobileHCI 2016*. ACM, p. 1129-1133 5 p.

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, P., Astola, P., Rao, B. & Tabus, I., 22 Aug 2016, *2016 3DTV-Conference: The True Vision - Capture, Transmission and Display of 3D Video, 3DTV-CON 2016*. IEEE COMPUTER SOCIETY PRESS

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, A., Kovacs, P. T., Aminlou, A., Hannuksela, M. M. & Gotchev, A., 22 Aug 2016, *2016 3DTV-Conference: The True Vision - Capture, Transmission and Display of 3D Video, 3DTV-CON 2016*. IEEE COMPUTER SOCIETY PRESS

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, V., Hyrynsalmi, S. & Nevalainen, O., 23 Jun 2016, *Computer Systems and Technologies 17th International Conference, CompSysTech 2016 - Proceedings*. Association for Computing Machinery, Vol. 1164. p. 41-48 8 p.

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, S., Rauti, S., Laurén, S., Mäkelä, J. M., Holvitie, J., Hyrynsalmi, S. & Leppänen, V., 23 Jun 2016, *Computer Systems and Technologies 17th International Conference, CompSysTech 2016 - Proceedings*. Association for Computing Machinery, Vol. 1164. p. 113-120 8 p.

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, J., Hyrynsalmi, S. & Leppänen, V., 13 Jun 2016, *6th International Conference on Web Intelligence, Mining and Semantics, WIMS 2016*. Association for Computing Machinery, 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, A., Masek, P., Malina, L., Florea, R., Hosek, J., Andreev, S., Hajny, J., Niutanen, J. & Koucheryavy, Y., 19 Apr 2016, *IEEE International Conference on Pervasive Computing and Communication Workshops, PerCom Workshops 2016*. IEEE

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

Patterns for subsidiaries as innovation tools

Leppänen, M. & Hokkanen, L., 7 Apr 2016, *Proceedings of the 10th Travelling Conference on Pattern Languages of Programs, VikingPLoP 2016*. ACM, a7

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

Patterns for safety system bus architecture

Rauhamäki, J., 7 Apr 2016, *Proceedings of the 10th Travelling Conference on Pattern Languages of Programs, VikingPLoP 2016*. ACM, a12

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

Learnings from the Finnish game industry

Helenius, M., Kettunen, P. & Frank, L., 7 Apr 2016, *Proceedings of the 10th Travelling Conference on Pattern Languages of Programs, VikingPLoP 2016*. ACM, 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, P., Malapaschas, A., Olsson, T. & Väänänen, K., 27 Feb 2016, *CSCW '16 - Proceedings of the 19th ACM Conference on Computer-Supported Cooperative Work & Social Computing*. ACM, p. 1691-1702 12 p.

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, P., Malapaschas, A., Olsson, T. & Väänänen, K., 27 Feb 2016, *CSCW '16 Proceedings of the 19th ACM Conference on Computer-Supported Cooperative Work & Social Computing*. ACM, p. 53-56 4 p.

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, S., Markopoulos, P. & Hannuksela, M. M., 16 Nov 2015, *ACE 2015 - 12th Advances in Computer Entertainment Technology Conference, Proceedings*. ACM, 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, T., Tyni, H., Kultima, A., Alha, K. & Holopainen, J., 16 Nov 2015, *ACE 2015 - 12th Advances in Computer Entertainment Technology Conference, Proceedings*. Association for Computing Machinery, Vol. 16-19-November-2015. 10

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

Antroposeeni - A mixed reality game

Luhtala, M., Karvonen, T., Pylväs, J., Ala-Kokko, A., Magica, R., Takeda, Y. & Turunen, M., 22 Sep 2015, *ACADEMICMINDTREK 2015 - Proceedings of the 19th International Academic Mindtrek Conference*. Association for Computing Machinery, Inc, p. 211-213 3 p.

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

OASIS deck of cards - House of colleagues: A playful

Nummenmaa, T., Kultima, A., Kankainen, V., Savolainen, S., Syvänen, A., Alha, K. & Mäyrä, F., 22 Sep 2015, *ACADEMICMINDTREK 2015 - Proceedings of the 19th International Academic Mindtrek Conference*. Association for Computing Machinery, Inc, p. 2-9 8 p.

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

Mobiscool: 1st workshop on mobile, social and culturally oriented learning

Nanavati, A. A., Rajput, N., Turunen, M., Knoche, H. & Rehm, M., 24 Aug 2015, *MobileHCI 2015 - Proceedings of the 17th International Conference on Human-Computer Interaction with Mobile Devices and Services Adjunct*. Association for Computing Machinery, Inc, p. 1187-1190 4 p.

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

Delivering directional haptic cues through eyeglasses and a seat

Nukarinen, T., Rantala, J., Farooq, A. & Raisamo, R., 4 Aug 2015, *IEEE World Haptics Conference, WHC 2015*. Institute of Electrical and Electronics Engineers Inc., p. 345-350 6 p. 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, O., Rantala, J. & Isokoski, P., 4 Aug 2015, *IEEE World Haptics Conference, WHC 2015*. Institute of Electrical and Electronics Engineers Inc., p. 333-338 6 p. 7177734

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

Three patterns for user involvement in startups

Hokkanen, L. & Leppänen, M., 8 Jul 2015, *Proceedings of the 20th European Conference on Pattern Languages of Programs, EuroPLoP 2015*. ACM, a51

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

Four patterns for internal startups

Leppänen, M. & Hokkanen, L., 8 Jul 2015, *Proceedings of the 20th European Conference on Pattern Languages of Programs, EuroPLoP 2015*. ACM, 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, K., Hyrynsalmi, S. & Leppänen, V., 25 Jun 2015, *Computer Systems and Technologies - 16th International Conference, CompSysTech 2015: Proceedings*. Association for Computing Machinery, Vol. 1008. p. 61-68 8 p.

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

Glance awareness and gaze interaction in smartwatches

Akkil, D., Kangas, J., Rantala, J., Isokoski, P., Špakov, O. & Raisamo, R., 18 Apr 2015, *CHI 2015 - Extended Abstracts Publication of the 33rd Annual CHI Conference on Human Factors in Computing Systems: Crossings*. Association for Computing Machinery, Vol. 18. p. 1271-1276 6 p.

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

Intentstreams: Smart parallel search streams for branching exploratory search

Andolina, S., Klouche, K., Peltonen, J., Hoque, M., Ruotsalo, T., Cabral, D., Klami, A., Glowacka, D., Floréen, P. & Jacucci, G., 18 Mar 2015, *IUI 2015 - Proceedings of the 20th ACM International Conference on Intelligent User Interfaces*. Association for Computing Machinery, Vol. 2015-January. p. 300-305 6 p.

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, P., Hannuksela, M. M. & Gabbouj, M., 5 Feb 2015, *2014 IEEE International Symposium on Multimedia, ISM 2014, 10-12 Dec. 2014, Taichung*. The Institute of Electrical and Electronics Engineers, Inc., p. 267-270 4 p.

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

Salient event detection in basketball mobile videos

Cricri, F., Mate, S., Curcio, I. D. D. & Gabbouj, M., 5 Feb 2015, *Proceedings - 2014 IEEE International Symposium on Multimedia, ISM 2014*. The Institute of Electrical and Electronics Engineers, Inc., p. 63-70 8 p. 7032995

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

Stereoscopic video description for human action recognition

Mademlis, I., Iosifidis, A., Tefas, A., Nikolaidis, N. & Pitas, I., 16 Jan 2015, *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.

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, J., Väättäjä, H., Kaasinen, E., Karvonen, H. & Lu, Y., 2015, *OzCHI '15 - Proceedings of the Annual Meeting of the Australian Special Interest Group for Computer Human Interaction*. ACM, p. 324-332 9 p.

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, E., Jumisko-Pyykkö, S. & Väättäjä, H., 2015, *14th International Conference on Mobile and Ubiquitous Multimedia (MUM 2015)*. ACM, p. 51-63 13 p.

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, H., Heimonen, T., Tiitinen, K., Hakulinen, J. & Turunen, M., 2015, *ISPIM Innovation Summit 2015*. Huizingh, E., Conn, S. & Bitran, I. (eds.). International Society for Professional Innovation Management ISPIM
Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific > peer-review

Design principles for collaboration platforms for open education

AbuJarour, S., Pirkkalainen, H., Pawlowski, J., Bick, M., Bagucanskyte, M., Frankenberg, A., Hudak, R., Makropoulos, C., Pappa, D., Pitsilis, V., Tannhauser, A. C., Trepule, E., Vidalis, A. & Volungeviciene, A., 2015, *CSEDU 2015 - 7th International Conference on Computer Supported Education, Proceedings*. SCITEPRESS, Vol. 1. p. 349-359 11 p.
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., 12 Nov 2014, *2014 USNC-URSI Radio Science Meeting (Joint with AP-S Symposium), USNC-URSI 2014 - Proceedings*. Institute of Electrical and Electronics Engineers Inc., p. 274 1 p. 6955657
Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific > peer-review

Information wall: Evaluation of a gesture-controlled public display

Mäkelä, V., Heimonen, T., Luhtala, M. & Turunen, M., 11 Nov 2014, *ACE 2014 - 11th Advances in Computer Entertainment Technology Conference, Proceedings*. Association for Computing Machinery, Vol. 2014-November. p. 228-231 4 p.
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, A., Nummenmaa, T., Tyni, H., Alha, K. & Mayra, F., 11 Nov 2014, *ACE 2014 - 11th Advances in Computer Entertainment Technology Conference, Workshops Proceedings*. Association for Computing Machinery, Vol. 11-14-November-2014. a9
Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific > peer-review

DYNAMO sound engine - Exploring the aesthetics of dynamic sound interactions

Luhtala, M., Heimonen, T., Mäkelä, V., Keskinen, T., Turunen, M. & Saarinen, S., 4 Nov 2014, *MINDTREK 2014 - Proceedings of the 18th International Academic MindTrek Conference: "Media Business, Management, Content and Services"*. Association for Computing Machinery, Inc, p. 159-166 8 p.
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, S., Srivastava, S., Sorathia, K., Hakulinen, J., Heimonen, T., Turunen, M. & Rajput, N., 4 Nov 2014, *MINDTREK 2014 - Proceedings of the 18th International Academic MindTrek Conference: "Media Business, Management, Content and Services"*. Association for Computing Machinery, Inc, p. 49-56 8 p.
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, H., Okkonen, J. & Savolainen, R., 4 Nov 2014, *MINDTREK 2014 - Proceedings of the 18th International Academic MindTrek Conference: "Media Business, Management, Content and Services"*. Association for Computing Machinery, Inc, p. 19-22 4 p.
Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific > peer-review

Games and energy: Profiling power usage during play

Salmela, J. M., Thanisch, P., Sotamaa, O. & Niemi, T., 4 Nov 2014, *MINDTREK 2014 - Proceedings of the 18th International Academic MindTrek Conference: "Media Business, Management, Content and Services"*. Association for Computing Machinery, Inc, p. 192-199 8 p.
Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific > peer-review

MurMur Moderators, the talking playful seats

Nummenmaa, T., Kultima, A., Tyni, H. & Alha, K., 4 Nov 2014, *MINDTREK 2014 - Proceedings of the 18th International Academic MindTrek Conference: "Media Business, Management, Content and Services"*. Association for Computing Machinery, Inc, p. 231-237 7 p.
Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific > peer-review

The fuzzy front end of experience design

Kaasinen, E., Väättäjä, H., Karvonen, H. & Lu, Y., 26 Oct 2014, *Proceedings of the NordiCHI 2014: The 8th Nordic Conference on Human-Computer Interaction: Fun, Fast, Foundational*. New York, NY: ACM, p. 797-800 4 p. (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, K. J. & Sharmin, S., 26 Oct 2014, *Proceedings of the NordiCHI 2014: The 8th Nordic Conference on Human-Computer Interaction: Fun, Fast, Foundational*. Association for Computing Machinery, Inc, p. 65-68 4 p.

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

Using gaze gestures with haptic feedback on glasses

Kangas, J., Akkil, D., Rantala, J., Isokoski, P., Majaranta, P. & Raisamo, R., 26 Oct 2014, *Proceedings of the NordiCHI 2014: The 8th Nordic Conference on Human-Computer Interaction: Fun, Fast, Foundational*. Association for Computing Machinery, Inc, p. 1047-1050 4 p.

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

Effects of haptic feedback on gaze based auto scrolling

Käki, K., Špakov, O., Majaranta, P. & Kangas, J., 26 Oct 2014, *Proceedings of the NordiCHI 2014: The 8th Nordic Conference on Human-Computer Interaction: Fun, Fast, Foundational*. Association for Computing Machinery, Inc, p. 947-950 4 p.

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, A., Parviainen, J., Tuuri, K., Turunen, M. & Heimonen, T., 26 Oct 2014, *Proceedings of the NordiCHI 2014: The 8th Nordic Conference on Human-Computer Interaction: Fun, Fast, Foundational*. Association for Computing Machinery, Inc, p. 841-844 4 p.

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

Seniors and text messaging on mobile touchscreen phones

Övermark, R., Isokoski, P. & Ovaska, S., 26 Oct 2014, *Proceedings of the NordiCHI 2014: The 8th Nordic Conference on Human-Computer Interaction: Fun, Fast, Foundational*. Association for Computing Machinery, Inc, p. 967-970 4 p.

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, T., Raisamo, R., Farooq, A., Evreinov, G. & Surakka, V., 26 Oct 2014, *Proceedings of the NordiCHI 2014: The 8th Nordic Conference on Human-Computer Interaction: Fun, Fast, Foundational*. Association for Computing Machinery, Inc, p. 61-64 4 p.

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., 3 Sep 2014, *IEEE International Conference on Multimedia and Expo, ICME 2014, Chengdu, China, July 14-18, 2014*. Piscataway: Institute of Electrical and Electronics Engineers IEEE, p. 1-6 6 p.

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

Two patterns for minimizing human resources in a startup

Leppänen, M., 10 Apr 2014, *VikingPLoP 2014 Proceedings of the 8th Nordic Conference on Pattern Languages of Programs (VikingPLoP)*. ACM, 4

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

Patterns for controlling chaos in a startup

Eloranta, V-P., 10 Apr 2014, *VikingPLoP 2014 Proceedings of the 8th Nordic Conference on Pattern Languages of Programs*. Association for Computing Machinery, Vol. 2014-April. p. 1-8 8 p. (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, P., Olsson, T., Ojala, J. & Väänänen-Vainio-Mattila, K., 2014, *Proceedings of the 13th International Conference on Mobile and Ubiquitous Multimedia, MUM2014, November 25-28, 2014, Melbourne, Australia*. New York, NY: ACM, p. 89-97 9 p. (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, J., Arvola, P. & Kumpulainen, S., 2014, *Proceedings of the 5th Information Interaction in Context Symposium, IliX 2014*. Association for Computing Machinery, p. 299-302 4 p.

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

Real-time hidden gaze point correction

Špakov, O. & Gizatdinova, Y., 2014, *Proceedings of the Symposium on Eye Tracking Research and Applications, ETRA 2014*. Association for Computing Machinery, p. 291-294 4 p.

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

Gaze gestures and haptic feedback in mobile devices

Kangas, J., Akkil, D., Rantala, J., Isokoski, P., Majaranta, P. & Raisamo, R., 2014, *CHI 2014: One of a CHIInd - Conference Proceedings, 32nd Annual ACM Conference on Human Factors in Computing Systems*. Association for Computing Machinery, p. 435-438 4 p.

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

Glasses with haptic feedback of gaze gestures

Rantala, J., Isokoski, P., Kangas, J., Raisamo, R. & Akkil, D., 2014, *CHI EA 2014: One of a ChiNd - Extended Abstracts, 32nd Annual ACM Conference on Human Factors in Computing Systems*. Association for Computing Machinery, p. 1597-1602 6 p.

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

Layers of user expectations of future technologies: An early framework

Olsson, T., 2014, *CHI EA 2014: One of a ChiNd - Extended Abstracts, 32nd Annual ACM Conference on Human Factors in Computing Systems*. Association for Computing Machinery, p. 1957-1962 6 p.

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, J., Isokoski, P., Brewster, S., Oulasvirta, A., Dunlop, M., Vertanen, K., Kristensson, P. O. & Waller, A., 2014, *CHI EA 2014: One of a ChiNd - Extended Abstracts, 32nd Annual ACM Conference on Human Factors in Computing Systems*. Association for Computing Machinery, p. 1139-1142 4 p.

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

TraQuMe: A tool for measuring the gaze tracking quality

Akkil, D., Isokoski, P., Kangas, J., Rantala, J. & Raisamo, R., 2014, *Proceedings of the Symposium on Eye Tracking Research and Applications, ETRA 2014*. Association for Computing Machinery, p. 327-330 4 p.

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

Look and lean: Accurate head-assisted eye pointing

Špakov, O., Isokoski, P. & Majaranta, P., 2014, *Proceedings of the Symposium on Eye Tracking Research and Applications, ETRA 2014*. Association for Computing Machinery, p. 35-42 8 p.

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

Preferences for touch gestures in audio-tactile communication

Rantala, J. & Raisamo, R., 2014, *IEEE Haptics Symposium 2014, HAPTICS 2014 - Proceedings*. IEEE COMPUTER SOCIETY PRESS, p. 247-250 4 p. 6775462

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

Haptic feedback to gaze events

Kangas, J., Rantala, J., Majaranta, P., Isokoski, P. & Raisamo, R., 2014, *Proceedings of the Symposium on Eye Tracking Research and Applications, ETRA 2014*. Association for Computing Machinery, p. 11-18 8 p.

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

Bars, pies, doughnuts & tables - Visualization of proportions

Siirtola, H., 2014, *Proceedings of the 28th International BCS Human Computer Interaction Conference: Sand, Sea and Sky - Holiday HCI, HCI 2014*. BCS Learning and Development Ltd., p. 241-245 5 p.

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

IntentRadar: Search user interface that anticipates user's search intents

Ruotsalo, T., Peltonen, J., Eugster, M. J. A., Glowacka, D., Reijonen, A., Jacucci, G., Myllymäki, P. & Kaski, S., 2014, *CHI EA 2014: One of a ChiNd - Extended Abstracts, 32nd Annual ACM Conference on Human Factors in Computing Systems*. Association for Computing Machinery, p. 455-458 4 p.

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

Controlled experiments comparing fault-tree-based safety analysis techniques

Mouaffo, A., Taibi, D. & Jamboti, K., 2014, *18th International Conference on Evaluation and Assessment in Software Engineering, EASE 2014*. Association for Computing Machinery (ACM), 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, C., 2013, *ISARC 2013 - 30th International Symposium on Automation and Robotics in Construction and Mining, Held in Conjunction with the 23rd World Mining Congress*. p. 1171-1176 6 p.

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

Virtual stick in caret positioning on touch screens

Scheibel, J. B., Pierson, C., Martin, B., Godard, N., Fuccella, V. & Isokoski, P., 2013, *IHM 2013 - Actes de la 25ieme Conference Francophone sur l'Interaction Homme-Machine*. p. 107-114 8 p.

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

Mobile dictation for healthcare professionals

Keskinen, T., Melto, A., Hakulinen, J., Turunen, M., Saarinen, S., Pallos, T., Kallioniemi, P., Danielsson-Ojala, R. & Salanterä, S., 2013, *Proceedings of the 12th International Conference on Mobile and Ubiquitous Multimedia, MUM 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, T., Turunen, M., Kangas, S., Pallos, T., Pekkala, P., Saarinen, S., Tiitinen, K., Keskinen, T., Luhtala, M., Koskinen, O., Okkonen, J. & Raisamo, R., 2013, *Proceedings of the 12th International Conference on Mobile and Ubiquitous Multimedia, MUM 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, T., Hakulinen, J., Heimonen, T., Turunen, M., Sharma, S., Miettinen, T. & Luhtala, M., 2013, *Proceedings of the 12th International Conference on Mobile and Ubiquitous Multimedia, MUM 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, P., Hakulinen, J., Keskinen, T., Turunen, M., Heimonen, T., Pihkala-Posti, L., Uusi-Mäkelä, M., Hietala, P., Okkonen, J. & Raisamo, R., 2013, *Proceedings of the 12th International Conference on Mobile and Ubiquitous Multimedia, MUM 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, S., Špakov, O. & Räihä, K. J., 2013, *Proceedings of the 2013 Conference on Eye Tracking South Africa, ETSA 2013*. p. 24-31 8 p.

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, A. A., Rajput, N., Srivastava, S., Erkut, C., Jylhä, A., Rudnicky, A. I., Serafin, S. & Turunen, M., 2013, *MobileHCI 2013 - Proceedings of the 15th International Conference on Human-Computer Interaction with Mobile Devices and Services*. p. 626-629 4 p.

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

Mixed reality with multimodal head-mounted pico projector

Sand, A. & Rakkolainen, I., 2013, *Proceedings of the Virtual Reality International Conference on Laval Virtual, VRIC 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, N., Pecci, I. & Isokoski, P., 2013, *Proceedings of the 11th European Conference on Interactive TV and Video, EuroITV 2013*. p. 55-58 4 p.

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

Fuccella, V., Isokoski, P. & Martin, B., 2013, *CHI 2013: Changing Perspectives, Conference Proceedings - The 31st Annual CHI Conference on Human Factors in Computing Systems*. p. 2785-2794 10 p.

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, Y., Kangas, J., Holm, J. & Grassel, G., 2013, *CHI 2013: Changing Perspectives, Conference Proceedings - The 31st Annual CHI Conference on Human Factors in Computing Systems*. p. 981-990 10 p.

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

'Aie-studio' - A pragmatist aesthetic approach for procedural sound design

Luhtala, M., Turunen, M., Hakulinen, J. & Keskinen, T., 2013, *Proceedings of the 8th Audio Mostly: A Conference on Interaction with Sound, AM 2013 - In Cooperation with ACM SIGCHI*. Association for Computing Machinery, 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, J. & Lin, Z., 2013, *2013 IEEE International Workshop on Machine Learning for Signal Processing - Proceedings of MLSP 2013*. 6661899

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

Scalable optimization of neighbor embedding for visualization

Yang, Z., Peltonen, J. & Kaski, S., 2013, *30th International Conference on Machine Learning, ICML 2013*. PART 1 ed. International Machine Learning Society (IMLS), p. 786-794 9 p.

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

Recording and analyzing in-browser programming sessions

Helminen, J., Ihantola, P. & Karavirta, V., 2013, *Proceedings - 13th Koli Calling International Conference on Computing Education Research, Koli Calling 2013*. p. 13-22 10 p.

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, P., Helminen, J. & Karavirta, V., 2013, *Proceedings - 13th Koli Calling International Conference on Computing Education Research, Koli Calling 2013*. p. 51-58 8 p.

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

The innovations in learning and education SAVI

Hamilton, E. & Multsilta, J., 2013, *Computer-Supported Collaborative Learning Conference, CSCL*. Vol. 2. p. 511-512 2 p.

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

Briefing news reporting with mobile assignments - Perceptions, needs and challenges

Väätäjä, H. & Egglestone, P., 2012, *Proceedings of the ACM 2012 conference on Computer Supported Cooperative Work CSCW'12 Seattle, WA, USA, February 11-15, 2012*. New York, NY: ACM, p. 485-494 10 p. (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

Väätäjä, H., Vainio, T. & Sirkkunen, E., 2012, *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, p. 85-94 10 p. (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, A., Hyrynsalmi, S., Kimppa, K. K., Knuutila, T., Smed, J. & Hakonen, H., 2012, *4th Asian Conference on Intelligent Games and Simulation, GAME-ON ASIA 2012 - 4th Asian Simulation Technology Conference, ASTEC 2012*. EUROSIS, p. 51-55 5 p.

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

Model for landmark highlighting in mobile web services

Kallioniemi, P. & Turunen, M., 2012, *Proceedings of the 11th International Conference on Mobile and Ubiquitous Multimedia, MUM 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, A. A., Rajput, N., Rudnicky, A. I., Turunen, M., Sandholm, T., Munteanu, C. & Penn, G., 2012, *MobileHCI'12 - Companion Proceedings of the 14th International Conference on Human Computer Interaction with Mobile Devices and Services*. p. 251-253 3 p.

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, B., Isokoski, P., Karmann, G. & Rollinger, T., 2012, *Proceedings of the Working Conference on Advanced Visual Interfaces, AVI 2012*. p. 357-364 8 p.

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, Y., Špakov, O. & Surakka, V., 2012, *Proceedings of the Working Conference on Advanced Visual Interfaces, AVI 2012*. p. 132-139 8 p.

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

Gaze gestures or dwell-based interaction?

Hyrskykari, A., Istance, H. & Vickers, S., 2012, *Proceedings - ETRA 2012: Eye Tracking Research and Applications Symposium*. p. 229-232 4 p.

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

Comparison of eye movement filters used in HCI

Špakov, O., 2012, *Proceedings - ETRA 2012: Eye Tracking Research and Applications Symposium*. p. 281-284 4 p.

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, H. & Räihä, K. J., 2012, *Proceedings - ETRA 2012: Eye Tracking Research and Applications Symposium*. p. 147-154 8 p.

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, H., Vickers, S. & Hyrskykari, A., 2012, *Proceedings - ETRA 2012: Eye Tracking Research and Applications Symposium*. p. 233-236 4 p.

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

Designing and evaluating text entry methods

Kristensson, P. O., Clawson, J., Dunlop, M., Isokoski, P., Roark, B., Vertanen, K., Waller, A. & Wobbrock, J., 2012, *Extended Abstracts - The 30th ACM Conference on Human Factors in Computing Systems, CHI 2012*. p. 2747-2750 4 p.

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

Räihä, K. J. & Ovaska, S., 2012, *Conference Proceedings - The 30th ACM Conference on Human Factors in Computing Systems, CHI 2012*. p. 3001-3010 10 p.

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

Haptic visualization of bathymetric data

Evreinova, T. V., Evreinov, G. & Raisamo, R., 2012, *Haptics Symposium 2012, HAPTICS 2012 - Proceedings*. p. 359-364 6 p. 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, J. & Georgatzis, K., 2012, *2012 IEEE International Workshop on Machine Learning for Signal Processing - Proceedings of MLSP 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, H., Hyrnsalmi, S. & Järvi, A., 2011, *Computer Systems and Technologies - 12th International Conference, CompSysTech'11 - Proceedings*. Vol. 578. p. 161-166 6 p.

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

Interpretation of ambiguous images inspected by the StickGrip device

Evreinova, T. V., Evreinov, G. & Raisamo, R., 2011, *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*. p. 209-216 8 p.

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., 2011, *Mobile HCI 2011 - 13th International Conference on Human-Computer Interaction with Mobile Devices and Services*. p. 733-735 3 p.

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

Multimodal multi-device program guide for smart conferences

Turunen, M., Hella, J., Miettinen, T., Valkama, P., Hakulinen, J. & Raisamo, R., 2011, *Mobile HCI 2011 - 13th International Conference on Human-Computer Interaction with Mobile Devices and Services*. p. 679-682 4 p.

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, S., Jones, M., Murray-Smith, R., Nanavati, A. A., Rajput, N., Schmidt, A. & Turunen, M., 2011, *Mobile HCI 2011 - 13th International Conference on Human-Computer Interaction with Mobile Devices and Services*. p. 715-716 2 p.

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

Presenting spatial tactile messages with a hand-held device

Rantala, J., Myllymaa, K., Raisamo, R., Lylykangas, J., Surakka, V., Shull, P. & Cutkosky, M., 2011, *2011 IEEE World Haptics Conference, WHC 2011*. p. 101-106 6 p. 5945469

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

Comparison of gaze-to-objects mapping algorithms

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

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

Designing tactile feedback for piezo buttons

Lylykangas, J., Surakka, V., Salminen, K., Raisamo, J., Laitinen, P., Rönning, K. & Raisamo, R., 2011, *CHI 2011 - 29th Annual CHI Conference on Human Factors in Computing Systems, Conference Proceedings and Extended Abstracts*. p. 3281-3284 4 p.

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

On the costs of multiple trajectory pointing methods

Quinn, P., Cockburn, A., Rähkä, K. J. & Delamarche, J., 2011, *CHI 2011 - 29th Annual CHI Conference on Human Factors in Computing Systems, Conference Proceedings and Extended Abstracts*. p. 859-862 4 p.

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

Squeeze vs. tilt: A comparative study using continuous tactile feedback

Hoggan, E., Trendafilov, D., Ahmaniemi, T. & Raisamo, R., 2011, *CHI EA 2011 - 29th Annual CHI Conference on Human Factors in Computing Systems, Conference Proceedings and Extended Abstracts*. p. 1309-1314 6 p.

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, Y., Surakka, V., Zhao, G., Mäkinen, E. & Raisamo, R., 2011, *Selected Papers from the Proceedings of the 7th International Conference on Methods and Techniques in Behavioral Research - Digital Edition, MB'10*. 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, S. & Sotamaa, O., 2011, *Proceedings of DiGRA 2011 Conference: Think Design Play*.

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, J. & Montola, M., 2011, *Proceedings of DiGRA 2011 Conference: Think Design Play*.

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, J., Holopainen, J., Waern, A., Montola, M. & Ollila, E., 2011, *Proceedings of DiGRA 2011 Conference: Think Design Play*.

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

Framework for designing and evaluating game achievements

Hamari, J. & Eranti, V., 2011, *Proceedings of DiGRA 2011 Conference: Think Design Play*.

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, J., Lucero, A., Saarenpää, H., Nummenmaa, T., Ali, A. E. & Jokela, T., 2011, *Proceedings of the 8th International Conference on Advances in Computer Entertainment Technology, ACE 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, R., Aref, M. M. & Taghirad, H. D., 2010, *IEEE/RSJ 2010 International Conference on Intelligent Robots and Systems, IROS 2010 - Conference Proceedings*. p. 2295-2300 6 p. 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, R., Aref, M. M. & Taghirad, H. D., 2010, *IEEE/RSJ 2010 International Conference on Intelligent Robots and Systems, IROS 2010 - Conference Proceedings*. p. 2772-2777 6 p. 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, S. & Järvelin, K., 2010, *IliX 2010 - Proceedings of the 2010 Information Interaction in Context Symposium*. p. 95-104 10 p.

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, T., Väättäjä, H. & Koponen, T., 2009, *MindTrek 2009 - 13th International Academic MindTrek Conference: Everyday Life in the Ubiquitous Era*. p. 45-52 8 p.

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

The SenseCam as a tool for task observation

Byrne, D., Doherty, A. R., Jones, G. J. F., Smeaton, A. F., Kumpulainen, S. & Järvelin, K., 2008, *Proceedings of the 22nd British HCI Group Annual Conference on People and Computers: Culture, Creativity, Interaction, BCS HCI 2008*.

BRITISH COMPUTER SOCIETY, Vol. 2. p. 19-22 4 p.

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

HCI and homecare: Connecting families and clinicians

Mamykina, L., Bardram, J. E., Korhonen, I., Mynatt, E. & Pratt, W., 2004, *Conference on Human Factors in Computing Systems - Proceedings*. p. 1715-1716 2 p.

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

Preface: Special Issue on 'New Hydraulic Components for Tough Robots'

Suzumori, K., Hyon, S. H., Semini, C., Mattila, J. & Kanda, T., 3 May 2018, In : *Advanced Robotics*. 32, 9, 1 p.

Research output: Contribution to journal › Editorial › Scientific

Designing interactive systems for work engagement

Roto, V., Clemmensen, T., Väättäjä, H. & Law, E. L. C., 2018, In : *Human Technology*. 14, 2, p. 135-139 5 p.

Research output: Contribution to journal › Editorial › Scientific

Social human-robot interaction in the wild: A workshop proposal for academic mindtrek 2020

Niemelä, M., Ahtinen, A. & Turunen, M., 29 Jan 2020, *AcademicMindtrek 2020 - Proceedings of the 23rd International Academic Mindtrek Conference: January 2020, Tampere*. ACM, p. 168-169 2 p.

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

Special Issue on Designing Interactive Systems for Work Engagement

Roto, V. (ed.), Clemmensen, T. (ed.), Väättäjä, H. (ed.) & Law, E. L. C. (ed.), 2018, In : *Human Technology*. 14, 2, p. 135-257 5 p.

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

Increasing user and customer understanding through rapid ethnography in emerging markets

Väättäjä, H. & Haggrén, J., 2015, *User Experience and Usability in Complex Systems - UXUS: FIMECC Publications Series No. 8, 2010-2015*. 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, H., Heimonen, T., Tiitinen, K., Hakulinen, J. & Turunen, M., 2015, *User Experience and Usability in Complex Systems - UXUS: FIMECC Publications Series No. 8, 2010-2015*. 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, T., Tiitinen, K., Turunen, M., Keskinen, T., Väättäjä, H., Varsaluoma, J., Jokinen, J. & Nieminen, H., 2015, *User Experience and Usability in Complex Systems - UXUS: FIMECC Publications Series No. 8, 2010-2015*. 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, J., Väättäjä, H., Kaasinen, E., Karvonen, H. & Lu, Y., 2015, *User Experience and Usability in Complex Systems - UXUS: FIMECC Publications Series No. 8, 2010-2015*. 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, H., 2015, *Proceedings of Human Work Interaction Design HWID, IFIP TC 13.6 working group*. University of West London, 10 p. 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, K., Sairanen, E. & Lappalainen, P., 28 Jun 2019.
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, N., Pietilä, I. & Varsaluoma, J., 22 Aug 2018, p. 1-30. 30 p.
Research output: Other conference contribution › Paper, poster or abstract › Scientific

The nexus between social media behaviour, negative consumer emotions and brand disloyalty

Jalonen, H. & Jussila, J., 11 Nov 2016.
Research output: Other conference contribution › Paper, poster or abstract › Scientific

Neural networks, cell cultures and some older work on data analysis.

Acimovic, J., 15 Jun 2009.
Research output: Other conference contribution › Paper, poster or abstract › Scientific