

Ninaus M, Greipl S, Kiili K, Lindstedt A, Huber S, Klein E, Karnath HO, Moeller K. 2019. Increased emotional engagement in game-based learning – A machine learning approach on facial emotion detection data. *Computers and Education*. 142. <https://doi.org/10.1016/j.compedu.2019.103641>

Jylhä H, Hamari J. 2019. An icon that everyone wants to click: How perceived aesthetic qualities predict app icon successfulness. *International Journal of Human Computer Studies*. 130:73-85. <https://doi.org/10.1016/j.ijhcs.2019.04.004>

Niiranen S. 2019. Supporting the development of students' technological understanding in craft and technology education via the learning-by-doing approach. *International Journal of Technology and Design Education*. 1-13. <https://doi.org/10.1007/s10798-019-09546-0>

Litovuo L, Karisalmi N, Aarikka-Stenroos L, Kaipio J. 2019. Comparing Three Methods to Capture Multidimensional Service Experience in Children's Health Care: Video Diaries, Narratives, and Semistructured Interviews. *International Journal of Qualitative Methods*. 18. <https://doi.org/10.1177/1609406919835112>

Heimbirger A, Isomottonen V, Nieminen P, Keto H. 2019. How do academics experience use of recorded audio feedback in higher education? A thematic analysis. In *Frontiers in Education: Fostering Innovation Through Diversity, FIE 2018 - Conference Proceedings*. IEEE. (Proceedings - Frontiers in Education Conference). <https://doi.org/10.1109/FIE.2018.8658635>

Harju V, Koskinen A, Pehkonen L. 2019. An exploration of longitudinal studies of digital learning. *EDUCATIONAL RESEARCH*. <https://doi.org/10.1080/00131881.2019.1660586>

Niemelä P, Partanen T, Toivanen T, Toikkanen T, Kangas V, Översti M. 2019. Code ABC hackathons: Teachers as tinkerers. In *Digital Turn in Schools - Research, Policy, Practice: Proceedings of ICEM 2018 Conference*. Springer International Publishing. pp. 157-169. (Lecture Notes in Educational Technology). https://doi.org/10.1007/978-981-13-7361-9_11

Wu L, Looi CK, Multisilta J, How ML, Choi H, Hsu TC, Tuomi P. 2019. Teacher's Perceptions and Readiness to Teach Coding Skills: A Comparative Study Between Finland, Mainland China, Singapore, Taiwan, and South Korea. *ASIA-PACIFIC EDUCATION RESEARCHER*. <https://doi.org/10.1007/s40299-019-00485-x>

Suominen A, Jussila J. 2018. Collaborative Writing and Knowledge Creation in a Social Media Online Community. Visvizi A, Lytras MD, Daniela L, editors. In *The Future of Innovation and Technology in Education: Policies and Practices for Teaching and Learning Excellence (Emerald Studies in Higher Education, Innovation and Technology)*. Emerald Group Publishing Ltd. pp. 95-109.

Niemelä P, Mikkolainen V, Vuorinen J. 2018. Compute mindlessly. Not! map consciously. *Universal Journal of Educational Research*. 6(11):2669-2678. <https://doi.org/10.13189/ujer.2018.061133>

Pyrhönen V-P. 2018. Osaamisperustaisuuden arviointia tentillä. Paper presented at Peda-forum-päivät 2018, Turku, Finland.

Merilampi S, Koivisto A, Sirkka A. 2018. Designing serious games for special user groups-design for somebody approach. *British Journal of Educational Technology*. 49(4):646-658. <https://doi.org/10.1111/bjet.12631>

Sabuncuoğlu A, Erkaya M, Buruk OT, Göksun T. 2018. Code notes: Designing a low-cost tangible coding tool for/with children. In *IDC 2018 - Proceedings of the 2018 ACM Conference on Interaction Design and Children*. ACM. pp. 644-649. <https://doi.org/10.1145/3202185.3210791>

Kiili K, Moeller K, Ninaus M. 2018. Evaluating the effectiveness of a game-based rational number training - In-game metrics as learning indicators. *Computers and Education*. 120:13-28. <https://doi.org/10.1016/j.compedu.2018.01.012>

Nisula K, Pekkola S. 2018. How to move away from the silos of business management education?. *Journal of Education for Business*. 93(3):97-111. <https://doi.org/10.1080/08832323.2018.1425283>

Kiili K, Ojansuu K, Lindstedt A, Ninaus M. 2018. Exploring the educational potential of a game-Based math competition. *International Journal of Game-Based Learning*. 8(2):14-28. <https://doi.org/10.4018/IJGBL.2018040102>

Rajaniemi J, Häkli J, Rauhala K, Sumkin H. 2018. Urbanisoituvaa yliopistokampus informaalin oppimisen mahdollistajana. *Aikuiskasvatus*. 2018(1):18-29.

Poutanen J. 2018. An architect's perspective. Walton G, Matthews G, editors. In *Exploring informal learning space in the university: A collaborative approach*. London, New York: Routledge. pp. 48-62.

Koivisto JM, Haavisto E, Niemi H, Haho P, Nylund S, Multisilta J. 2018. Design principles for simulation games for learning clinical reasoning: A design-based research approach. *Nurse Education Today*. 60:114-120. <https://doi.org/10.1016/j.nedt.2017.10.002>

Niemelä P, Valmari A. 2018. Elementary math to close the digital skills gap. In *CSEDU 2018 - Proceedings of the 10th International Conference on Computer Supported Education*. SCITEPRESS. pp. 154-165. <https://doi.org/10.5220/0006800201540165>

Hamari J, Hassan L, Dias A. 2018. Gamification, quantified-self or social networking? Matching users' goals with motivational technology. *User Modeling and User-Adapted Interaction*. 28(1):35-74. <https://doi.org/10.1007/s11257-018-9200-2>

Morschheuser B, Hamari J, Koivisto J, Maedche A. 2017. Gamified crowdsourcing: Conceptualization, literature review, and future agenda. *International Journal of Human-Computer Studies*. 106:26-43. <https://doi.org/10.1016/j.ijhcs.2017.04.005>

Pyrhönen V-P. 2017. Vygotsky's Zone of Proximal Development in Connection with Technology-Enhanced Learning Environments. Quadrado J, Bernardino J, Rocha J, editors. In *Proceedings of the 45th SEFI Annual Conference*. European Society for Engineering Education SEFI. pp. 1206-1213.

Leinonen J, Leppänen L, Ihantola P, Hellas A. 2017. Comparison of time metrics in programming. In *ICER 2017 - Proceedings of the 2017 ACM Conference on International Computing Education Research*. ACM. pp. 200-208. <https://doi.org/10.1145/3105726.3106181>

Leppänen L, Leinonen J, Ihantola P, Hellas A. 2017. Using and collecting fine-grained usage data to improve online learning materials. In *Proceedings - 2017 IEEE/ACM 39th International Conference on Software Engineering: Software Engineering and Education Track, ICSE-SEET 2017*. IEEE. pp. 4-12. <https://doi.org/10.1109/ICSE-SEET.2017.12>

Hellas A, Leinonen J, Ihantola P. 2017. Plagiarism in take-home exams: Help-seeking, collaboration, and systematic cheating. In *ITiCSE 2017 - Proceedings of the 2017 ACM Conference on Innovation and Technology in Computer Science Education*. ACM. pp. 238-243. <https://doi.org/10.1145/3059009.3059065>

Multisilta J, Niemi H, Hamilton E. 2017. Children designing videos: Tools, pedagogical models, and best practices for digital storytelling and media-making in the classroom. In *IDC 2017 - Proceedings of the 2017 ACM Conference on Interaction Design and Children*. ACM. pp. 693-696. <https://doi.org/10.1145/3078072.3091982>

Leinonen J, Ihantola P, Hellas A. 2017. Preventing keystroke based identification in open data sets. In *L@S 2017 - Proceedings of the 4th (2017) ACM Conference on Learning at Scale*. ACM. pp. 101-109. <https://doi.org/10.1145/3051457.3051458>

Niemi T, Kalliomäki H, Pajarre E. 2017. A teacher? A mentor? A friend? - Teacher mentoring experience at Tampere University of Technology. In *Proceedings of the 45th SEFI Annual Conference 2017 - Education Excellence for Sustainability, SEFI 2017*. European Society for Engineering Education SEFI. pp. 1352-1361.

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

Salmela E, Häkkinen K, Rantala J. 2017. Hobbyists as a super group of user-centred innovation - Case CreamSound guitar amplifier. *International Journal of Innovation and Learning*. 21(2):223-245. <https://doi.org/10.1504/IJIL.2017.081946>

Vihervaara J, Alapaholuoma T. 2017. Internet of Things: Opportunities for vocational education and training: Presentation of the pilot project. In CSEDU 2017 - Proceedings of the 9th International Conference on Computer Supported Education. SCITEPRESS. pp. 476-480. <https://doi.org/10.5220/0006353204760480>

Pyrhönen VP. 2017. Vygotsky's zone of proximal development in connection with technology-enhanced learning environments. In Proceedings of the 45th SEFI Annual Conference 2017 - Education Excellence for Sustainability, SEFI 2017. European Society for Engineering Education SEFI. pp. 1206-1213.

Koivisto JM, Multisilta J, Niemi H, Katajisto J, Eriksson E. 2016. Learning by playing: A cross-sectional descriptive study of nursing students' experiences of learning clinical reasoning. *Nurse Education Today*. 45:22-28. <https://doi.org/10.1016/j.nedt.2016.06.009>

Helander N, Boedeker M, Hellsten P, Jussila J, Myllärniemi J, Tukiainen M. 2016. Affective experiences and student engagement in higher education. In 44th Annual Conference Of The European Society For Engineering Education: 12-15 September 2016, Tampere, Finland. Tampere.

Tukiainen MO. 2016. Students as mystery shoppers: lowering knowledge sharing barriers in higher education. In 44th Annual Conference Of The European Society For Engineering Education: 12-15 September 2016, Tampere, Finland. Tampere.

Iivonen V, Iiantola P, Mikkonen T. 2016. Dynamic software updating techniques in practice and Educator's guides: A review. In 2016 IEEE 29th International Conference on Software Engineering Education and Training (CSEET) . IEEE. pp. 86-90. <https://doi.org/10.1109/CSEET.2016.16>

Ropo M, Schneider M, Baldauf C, Blum V. 2016. First-principles data set of 45,892 isolated and cation-coordinated conformers of 20 proteinogenic amino acids. *Scientific Data*. 3. <https://doi.org/10.1038/sdata.2016.9>

Pyrhönen V-P, Seppälä J, Salmenperä M. 2016. Computer-supported collaborative learning: Praxes in new cell-oriented configurable PC-classroom. In SEFI conference 2016: Engineering Education on Top of the World: Industry University Cooperation.

Niemi H, Multisilta J. 2016. Digital storytelling promoting twenty-first century skills and student engagement. *Technology, Pedagogy and Education*. 25(4):451-468. <https://doi.org/10.1080/1475939X.2015.1074610>

Pyrhönen V-P. 2016. Enhancing old laboratory experiment using flipped learning: Towards self-regulating collaborative groups in blended learning environment. In SEFI conference 2016: Engineering Education on Top of the World: Industry University Cooperation.

Juuti T, Kopra MJ, Rättyä K, Lehtonen T. 2016. How to benefit from learning logs in engineering education?. In 44th Annual Conference of the European Society for Engineering Education - Engineering Education on Top of the World: Industry-University Cooperation, SEFI 2016. European Society for Engineering Education SEFI.

Lehtonen T, Juuti T, Vanhatalo M, Kopra MJ, Rättyä K. 2016. Leadership instead of grading - The new goals of assessment. In 44th Annual Conference of the European Society for Engineering Education - Engineering Education on Top of the World: Industry-University Cooperation, SEFI 2016. European Society for Engineering Education SEFI.

- Juuti T, Rättyä K, Lehtonen T. 2016. Learning logs in product development education. In Proceedings of the 18th International Conference on Engineering and Product Design Education: Design Education: Collaboration and Cross-Disciplinarity, E and PDE 2016. Institution of Engineering Designers, The Design Society. pp. 296-301.
- Nokelainen P, Kaisvuori H, Pylväs L. 2016. Self-regulation and competence in work-based learning. Mulder M, editor. In Competence-based Vocational and Professional Education. Bridging the Worlds of Work and Education : Bridging the Worlds of Work and Education. Springer US. pp. 775-793. (Technical and Vocational Education and Training: Issues, Concerns and Prospects). https://doi.org/10.1007/978-3-319-41713-4_36
- Mäkelä A-M, Ali-Löytty S, Humaloja J-P, Joutsenlahti J, Kauhanen J, Kaarakka T. 2016. STACK assignments in university mathematics education. In Proceedings of the 44th SEFI Conference, 12 - 15 September 2016, Tampere, Finland. European Society for Engineering Education SEFI.
- Pyhältö K, Pietarinen J, Soini T. 2015. When teaching gets tough – Professional community inhibitors of teacher-targeted bullying and turnover intentions. IMPROVING SCHOOLS. 18(3):263-276. <https://doi.org/10.1177/1365480215589663>
- Pyhälto K, Pietarinen J, Soini T. 2015. Teachers professional agency and learning-from adaption to active modification in the teacher community. TEACHERS AND TEACHING: THEORY AND PRACTICE. 21(7):811-830. <https://doi.org/10.1080/13540602.2014.995483>
- Aramo-Immonen H, Jussila J, Huhtamäki J. 2015. Exploring co-learning behavior of conference participants with visual network analysis of Twitter data. Computers in Human Behavior. 51(Part B):1154–1162. <https://doi.org/10.1016/j.chb.2015.02.033>
- Soini T, Pietarinen J, Toom A, Pyhältö K. 2015. What contributes to first-year student teachers sense of professional agency in the classroom?. TEACHERS AND TEACHING: THEORY AND PRACTICE. 21(6):641-659. <https://doi.org/10.1080/13540602.2015.1044326>
- AbuJarour SA, Bick M, Pawlowski J, Volungeviciene A, Trepule E, Bagucanskyte M, Pirkkalainen H, Ehlers UD, Hudak R, Makropoulos C, Pappa D, Pitsilis V, Vidalis A, Tannhauser AC. 2015. Enhancing the experience of online users of open education. In 2014 International Conference on Web and Open Access to Learning, ICWOAL 2014. Institute of Electrical and Electronics Engineers Inc. <https://doi.org/10.1109/ICWOAL.2014.7009217>
- Malinen S, Nurkka P. 2015. Cultural influence on online community use: A cross-cultural study on online exercise diary users of three nationalities. International Journal of Web Based Communities. 11(2):153-169. <https://doi.org/10.1504/IJWBC.2015.068539>
- AbuJarour S, Pirkkalainen H, Pawlowski J, Bick M, Bagucanskyte M, Frankenberg A, Hudak R, Makropoulos C, Pappa D, Pitsilis V, Tannhauser AC, Trepule E, Vidalis A, Volungeviciene A. 2015. Design principles for collaboration platforms for open education. In CSEDU 2015 - 7th International Conference on Computer Supported Education, Proceedings. SCITEPRESS. pp. 349-359.
- Sharmin S, Špakov O, Rähä KJ. 2015. Dynamic text presentation in print interpreting - An eye movement study of reading behaviour. International Journal of Human-Computer Studies. 78:17-30. <https://doi.org/10.1016/j.ijhcs.2015.01.010>
- Marinho P, Vermandel M, Bourgeois P, Lejeune JP, Mordon S, Thines L. 2014. Preoperative simulation for the planning of microsurgical clipping of intracranial aneurysms. SIMULATION IN HEALTHCARE. 9(6):370-376. <https://doi.org/10.1097/SIH.0000000000000056>
- Vihavainen A, Luukkainen M, Ihantola P. 2014. Analysis of source code snapshot granularity levels. In SIGITE 2014 - Proceedings of the 15th Annual Conference on Information Technology Education. Association for Computing Machinery, Inc. pp. 21-26. <https://doi.org/10.1145/2656450.2656473>

- Ihantola P, Sorva J, Vihavainen A. 2014. Automatically detectable indicators of programming assignment difficulty. In SIGITE 2014 - Proceedings of the 15th Annual Conference on Information Technology Education. Association for Computing Machinery, Inc. pp. 33-38. <https://doi.org/10.1145/2656450.2656476>
- Pirkkalainen H, Jokinen JPP, Pawlowski JM. 2014. Understanding social OER environments-A quantitative study on factors influencing the motivation to share and collaborate. IEEE Transactions on Learning Technologies. 7(4):388-400. <https://doi.org/10.1109/TLT.2014.2323970>
- Mtebe JS, Raisamo R. 2014. Challenges and instructors' intention to adopt and use open educational resources in higher education in tanzania. INTERNATIONAL REVIEW OF RESEARCH IN OPEN AND DISTANCE LEARNING. 15(1):249-271.
- Pyhältö K, Pietarinen J, Soini T. 2014. Comprehensive school teachers' professional agency in large-scale educational change. JOURNAL OF EDUCATIONAL CHANGE. 15(3):303-325. <https://doi.org/10.1007/s10833-013-9215-8>
- Busjahn T, Schulte C, Sharif B, Simon, Begel A, Hansen M, Bednarik R, Orlov P, Ihantola P, Shchekotova G, Antropova M. 2014. Eye tracking in computing education. In ICER 2014 - Proceedings of the 10th Annual International Conference on International Computing Education Research. Association for Computing Machinery. pp. 3-10. <https://doi.org/10.1145/2632320.2632344>
- Mtebe JS, Raisamo R. 2014. Investigating perceived barriers to the use of open educational resources in higher education in tanzania. INTERNATIONAL REVIEW OF RESEARCH IN OPEN AND DISTANCE LEARNING. 15(2):43-66.
- Pirkkalainen H, Jokinen JPP, Pawlowski JM, Richter T. 2014. Overcoming cultural distance in social OER environments. In CSEDU 2014 - Proceedings of the 6th International Conference on Computer Supported Education. SCITEPRESS. pp. 15-24.
- Hyötynen P, Mursu S, Teini J-P. 2014. Professional knowledge, skills and competencies of the new graduates and the engineering professionals - Comparison of the importance in working-life. In SEFI Annual Conference 2014. Brussel: European Society for Engineering Education SEFI.
- Ulmanen S, Soini T, Pyhältö K, Pietarinen J. 2014. Strategies for academic engagement perceived by Finnish sixth and eighth graders. CAMBRIDGE JOURNAL OF EDUCATION. 44(3):425-443. <https://doi.org/10.1080/0305764X.2014.921281>
- Pietarinen J, Soini T, Pyhältö K. 2014. Students' emotional and cognitive engagement as the determinants of well-being and achievement in school. INTERNATIONAL JOURNAL OF EDUCATIONAL RESEARCH. 67:40-51. <https://doi.org/10.1016/j.ijer.2014.05.001>
- Ahonen E, Pyhältö K, Pietarinen J, Soini T. 2014. Teachers' professional beliefs about their roles and the pupils' roles in the school. TEACHER DEVELOPMENT. 18(2):177-197. <https://doi.org/10.1080/13664530.2014.900818>
- Pietarinen J, Pyhältö K, Soini T, Salmela-Aro K. 2013. Reducing teacher burnout: A socio-contextual approach. TEACHING AND TEACHER EDUCATION. 35:62-72. <https://doi.org/10.1016/j.tate.2013.05.003>
- Westling SK, Pyhältö K, Pietarinen J, Soini T. 2013. How do ninth-graders perceive their involvement in the most meaningful episodes of their school career?. INTERNATIONAL JOURNAL OF EDUCATIONAL RESEARCH. 58:25-35. <https://doi.org/10.1016/j.ijer.2012.12.005>
- Helminen J, Ihantola P, Karavirta V, Alaoutinen S. 2013. How do students solve parsons programming problems? - Execution-based vs. line-based feedback. In Proceedings - 2013 Learning and Teaching in Computing and Engineering, LaTiCE 2013. pp. 55-61. <https://doi.org/10.1109/LaTiCE.2013.26>

Hamilton E, Multisilta J. 2013. The innovations in learning and education SAVI. In Computer-Supported Collaborative Learning Conference, CSCL. pp. 511-512.

Rantala J, Salminen K, Raisamo R, Surakka V. 2013. Touch gestures in communicating emotional intention via vibrotactile stimulation. *International Journal of Human-Computer Studies*. 71(6):679-690. <https://doi.org/10.1016/j.ijhcs.2013.02.004>

Pyhältö K, Pietarinen J, Soini T. 2012. Do comprehensive school teachers perceive themselves as active professional agents in school reforms?. *JOURNAL OF EDUCATIONAL CHANGE*. 13(1):95-116. <https://doi.org/10.1007/s10833-011-9171-0>

Karavirta V, Helminen J, Ihantola P. 2012. A Mobile learning application for parsons problems with automatic feedback. In *Proceedings - 12th Koli Calling International Conference on Computing Education Research, Koli Calling 2012*. pp. 11-18. <https://doi.org/10.1145/2401796.2401798>

Rytkönen E, Nenonen S, Kärnä S. 2012. Exploring facilities management - Towards future campuses. In *Proceedings of the 40th SEFI Annual Conference 2012 - Engineering Education 2020: Meet the Future*. European Society for Engineering Education SEFI.

Helminen J, Ihantola P, Karavirta V, Malmi L. 2012. How do students solve parsons programming problems? - An analysis of interaction traces. In *ICER'12 - Proceedings of the 9th Annual International Conference on International Computing Education Research*. pp. 119-126. <https://doi.org/10.1145/2361276.2361300>

Aramo-Immonen H. 2012. Knowledge management through learning model in industrial projects. *International Journal of Knowledge and Learning*. 8(3-4):298-312. <https://doi.org/10.1504/IJKL.2012.051675>

Pyhältö K, Soini T, Pietarinen J. 2011. A systemic perspective on school reform: Principals' and chief education officers' perspectives on school development. *JOURNAL OF EDUCATIONAL ADMINISTRATION*. 49(1):46-61. <https://doi.org/10.1108/09578231111102054>

Bhattacharyya SS, Plishker W, Shen CC, Gupta A. 2011. Teaching cross-platform design and testing methods for embedded systems using DICE. In *Proceedings - 2011 Workshop on Embedded Systems Education, WESE 2011*. pp. 38-45. <https://doi.org/10.1145/2077370.2077376>

Christophe F, Sell R, Coatanea E, Micaëlli JP. 2008. Integrated design framework: Towards an approach for early design. In *DS 46: Proceedings of E and PDE 2008, the 10th International Conference on Engineering and Product Design Education*.