

### **Neurofunctional plasticity in fraction learning: An fMRI training study**

Wortha, S. M., Bloechle, J., Ninaus, M., Kiili, K., Lindstedt, A., Bahnmüller, J., Moeller, K. & Klein, E., 1 Dec 2020, In : Trends in Neuroscience and Education. 21, 15 p., 100141.

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

### **Government Workers' Stories about Professional Development in a Digitalized Working Life**

Wallin, A., Pylväs, L. & Nokelainen, P., 2 Apr 2020, In : Vocations and Learning.

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

### **Teachers' perspectives on project-based learning in mathematics and science**

Viro, E., Lehtonen, D., Joutsenlahti, J. & Tahvanainen, V., 2020, In : European Journal of Science and Mathematics Education. 8, 1, p. 12-31

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

### **Standing and attractiveness of vocational education and training in Finland: focus on learning environments**

Rintala, H. & Nokelainen, P., 2020, In : JOURNAL OF VOCATIONAL EDUCATION AND TRAINING.

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

### **Creating a National Digital Learning Environment for Enhancing University Teachers' Pedagogical Expertise – The Case UNIPS**

Murtonen, M., Laato, S., Lipponen, E., Salmento, H., Vilppu, H., Maikkola, M., Vaskuri, P., Mäkinen, M., Naukkarinen, J., Virkki-Hatakka, T., Pajarre, E., Selänne, S. & Skaniakos, T., Dec 2019, In : International Journal of Learning, Teaching and Educational Research. 18, 13, p. 7-29 23 p., 13.

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

### **The concept of active learning and the measurement of learning outcomes: A review of research in engineering higher education**

Hartikainen, S., Rintala, H., Pylväs, L. & Nokelainen, P., 19 Nov 2019, In : EDUCATION SCIENCES. 9, 4, 19 p., 276.

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

### **Supporting the development of students' technological understanding in craft and technology education via the learning-by-doing approach**

Niiranen, S., 16 Sep 2019, In : International Journal of Technology and Design Education. p. 1-13

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

### **Lokikirja oppimisen arviointimenetelmänä**

Rättyä, K. & Juuti, T., 1 Sep 2019, (Accepted/In press) In : KASVATUS, SUOMEN KASVATUSTIETEELLINEN AIKAKAUSKIRJA.

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

### **Vocational Education and Learners' Experienced Workplace Curriculum**

Rintala, H. & Nokelainen, P., 8 Aug 2019, In : Vocations and Learning.

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

### **A decade of Finnish engineering education for sustainable development**

Takala, A. & Korhonen-Yrjänheikki, K., 2019, In : INTERNATIONAL JOURNAL OF SUSTAINABILITY IN HIGHER EDUCATION. 20, 1, p. 170-186

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

### **Understanding and promoting students' well-being and performance in university studies**

Asikainen, H., Kaipainen, K. & Katajavuori, N., 2019, In : Journal of University Teaching and Learning Practice. 16, 5, 2.

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

### **Ammatillisten opettajien näkemyksiä opettajan työssä tarvittavasta kompetenssista ja työelämäyhteistyöstä**

Lehtonen, E., Rintala, H., Pylväs, L. & Nokelainen, P., 19 Dec 2018, In : Ammattikasvatuksen aikakauskirja. 20, 4, p. 10-26 17 p.

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

**Effects of progressive inquiry on cognitive and affective learning outcomes in adolescents' geography education**

Kuisma, M. & Nokelainen, P., 30 Jul 2018, In : Frontline Learning Research. 6, 2, 19 p.

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

**The StarT Project Competition from the Perspective of Mathematics and Academic Literacy**

Viro, E. & Joutsenlahti, J., 4 May 2018, In : EDUCATION SCIENCES. 8, 2

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

**Urbanisoituva yliopistokampus informaalin oppimisen mahdollistajana**

Rajaniemi, J., Häkli, J., Rauhala, K. & Sumkin, H., 27 Mar 2018, In : Aikuiskasvatus. 2018, 1, p. 18-29 12 p.

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

**Relationships among Civil Engineering Students' Approaches to Learning, Perceptions of the Teaching-Learning Environment, and Study Success**

Salmisto, A., Postareff, L. & Nokelainen, P., 1 Oct 2017, In : Journal of Professional Issues in Engineering Education and Practice. 143, 4, 04017010.

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

**WorldSkills achievers' and their co-workers' and employers' perceptions of vocational expertise and school-to-work pathways**

Pylväs, L. & Nokelainen, P., 31 Aug 2017, In : International Journal for Research in Vocational Education and Training. 4, 2, p. 95-116

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

**Survey of health informatics education in Finland in 2017**

Tolonen, J. & Värrä, A., 22 May 2017, In : Finnish Journal of eHealth and eWelfare. 9, 2-3, p. 217-231 15 p.

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

**Otos iloa – Lasten kokemuksia iloa tuottavasta oppimisympäristöstä**

Huhtamäki, E., Holma, H., Nokelainen, P. & Kumpulainen, K., 2017, In : Kasvatus. 48, 4, p. 336-352

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

**How to facilitate freshmen learning and support their transition to a university study environment**

Kangas, J., Rantanen, E. & Kettunen, L., 28 Jul 2016, In : European Journal of Engineering Education. p. 1-16 16 p.

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

**Female technology education teachers' experiences of Finnish craft education**

Niiranen, S. & Hilmola, A., 2016, In : DESIGN AND TECHNOLOGY EDUCATION: AN INTERNATIONAL JOURNAL. 21, 2, p. 41 48 p.

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

**Examples of the Teaching of the Health Questions of Electric and Magnetic Fields at Tampere University of Technology in Finland**

Korpinen, L. & Pääkkönen, R., 2015, In : Journal of Physical Science and Application. 5, 4, p. 277-282 6 p.

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

**Digital Storytelling for 21st -Century Skills in Virtual Learning Environments**

Niemi, H., Harju, V., Vivitsou, M., Viitanen, K. & Multisilta, J., 2014, In : Creative Education. 5, p. 657-671 15 p.

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

### **Salivary cortisol reactivity to psychological stressors in infancy: A meta-analysis**

Puhakka, I. J. A. & Peltola, M. J., 1 May 2020, In : PSYCHONEUROENDOCRINOLOGY. 115, 104603.

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

### **An exploration of longitudinal studies of digital learning**

Harju, V., Koskinen, A. & Pehkonen, L., 2019, In : EDUCATIONAL RESEARCH.

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

### **Guiding the workplace learning in vocational education and training: A literature review**

Mikkonen, S., Pylväs, L., Rintala, H., Nokelainen, P. & Postareff, L., 2017, In : Empirical Research in Vocational Education and Training. 9, 9

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

### **Katsaus oppisopimuskoulutukseen instituutiona Saksassa, Englannissa ja Suomessa**

Rintala, H., Nokelainen, P. & Pylväs, L., 2017, In : Kasvatus. 48, 2, p. 128-140

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

### **Process Safety Competence of Vocational Students**

Tappura, S., Nenonen, S., Nenonen, N. & Kivistö-Rahnasto, J., 6 Jun 2019, *Advances in Safety Management and Human Factors: Proceedings of the AHFE 2019 International Conference on Safety Management and Human Factors, July 24-28, 2019, Washington D.C., USA*. Arezes, P. (ed.). Cham: Springer International Publishing, p. 383-392 10 p. (Advances in Intelligent Systems and Computing,; vol. 969).

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

### **Informal workplace learning: Turning the workplace into a learning site**

Rintala, H., Nokelainen, P. & Pylväs, L., 17 Feb 2019, *Handbook of vocational education and training : Developments in the changing world of work*. McGrath, S., Mulder, M., Papier, J. & Suart, R. (eds.). Springer, p. 1-14 14 p.

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

### **Students' experiences of Workplaces as Learning Environments in Vocational Education and Training in Finland**

Rintala, H., Nokelainen, P. & Pylväs, L., 15 Dec 2018, *Vocational Education & Training - The World of Work and Teacher Education : Emergent Issues in Research on Vocational Education & Training Vol. 3*. Gougoulakis, P., Teräs, M. & Moreno Herrera, L. (eds.). Stockholm University Press

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

### **Gender and technology education**

Niiranen, S., 2018, *Handbook of Technology Education*. Springer, p. 875-888 14 p.

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

### **Teacher perceptions of teaching CLIL courses**

Niemelä, N. & Jauni, H., 2017, *Integrating Content and Language in Higher Education: Perspectives on Professional Practice. Selected Papers from the IV International Conference Integrating Content and Language in Higher Education 2015*. Valcke, J. & Wilkinson, R. (eds.). Frankfurt: Peter Lang, p. 77-96

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

### **Self-regulation and competence in work-based learning**

Nokelainen, P., Kaisvuo, H. & Pylväs, L., 2016, *Competence-based Vocational and Professional Education. Bridging the Worlds of Work and Education : Bridging the Worlds of Work and Education*. Mulder, M. (ed.). Springer US, p. 775-793 (Technical and Vocational Education and Training: Issues, Concerns and Prospects; vol. 23).

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

### **Prologue: Towards a Global Ecosystem**

Niemi, H., Multisilta, J., Lipponen, L. & Vivitsou, M., 2 Oct 2014, *Finnish Innovations and Technologies in Schools: a Guide towards New Ecosystems of Learning*. Niemi, H., Multisilta, J., Lipponen, L. & Vivitsou, M. (eds.). Rotterdam: Sense Publishers, p. ix-xii

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

### **Children as co-creators of video stories: mobile videos for learning**

Multisilta, J. & Niemi, H., 2014, *2014 37th International Convention on Information and Communication Technology, Electronics and Microelectronics (MIPRO)*. p. 588-592

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

### **Global is Becoming Everywhere: Global Sharing Pedagogy**

Niemi, H. & Multisilta, J., 2014, *Finnish Innovations and Technologies in Schools: a Guide towards New Ecosystems of Learning*. Niemi, H., Multisilta, J., Lipponen, L. & Vivitsou, M. (eds.). Rotterdam: Sense Publishers, p. 35-47 13 p.

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

### **Epilogue: What are Innovations in the Finnish Educational Ecosystem**

Niemi, H., Multisilta, J., Lipponen, L. & Vivitsou, M., 2014, *Finnish Innovations and Technologies in Schools: A Guide towards New Ecosystems of Learning*. Niemi, H., Multisilta, J., Lipponen, L. & Vivitsou, M. (eds.). Rotterdam: Sense Publishers, p. 165-169 5 p.

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

### **Leikkien mutta tosissaan: Leikillä iloa oppimisympäristöön**

Harju, V. & Multisilta, J., 2014, *Oppiminen pelissä*. Krokfors, L., Kangas, M. & Kopisto, K. (eds.). Tampere: Vastapaino, p. 153-167 15 p.

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

### **Angry Birds for Fun in Learning**

Harju, V. & Multisilta, J., 2014, *Finnish Innovations and Technologies in Schools: a Guide towards New Ecosystems of Learning*. Niemi, H., Multisilta, J., Lipponen, L. & Vivitsou, M. (eds.). Sense Publishers, p. 69-76 8 p.

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

### **Leikilliset oppimateriaalit innostavat oppimaan**

Harju, V. & Multisilta, J., 2014, *Rajaton luokkahuone*. Niemi, H. & Multisilta, J. (eds.). Jyväskylä: PS-kustannus, p. 270-284 15 p. (Opetus 2000).

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

### **Kansainvälinen jakamisen pedagogiikka**

Niemi, H. & Multisilta, J., 2014, *Rajaton luokkahuone*. Niemi, H. & Multisilta, J. (eds.). Jyväskylä: PS-kustannus, p. 50-64 15 p. (Opetus 2000).

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

### **Miten suomalainen koulu valmistaa tulevaisuuteen?**

Multisilta, J., Niemi, H. & Lavonen, J., 2014, *Rajaton luokkahuone*. Niemi, H. & Multisilta, J. (eds.). Jyväskylä: PS-kustannus, p. 286-298 13 p. (Opetus 2000).

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

### **Koulu rajattomuuden keskellä**

Niemi, H. & Multisilta, J., 2014, *Rajaton luokkahuone*. Niemi, H. & Multisilta, J. (eds.). Jyväskylä: PS-kustannus, p. 12-35 24 p. (Opetus 2000).

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

### **Digitaalisen tarinankerronnan monet mahdollisuudet**

Viitanen, K., Harju, V., Niemi, H. & Multisilta, J., 2014, *Rajaton luokkahuone*. Niemi, H. & Multisilta, J. (eds.). Jyväskylä: PS-kustannus, p. 187-211 25 p. (Opetus 2000).

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

#### **Videot nuorten maailmassa ja digitaalinen tarinankerronta**

Multsilta, J. & Niemi, H., 2014, *Rajaton luokkahuone*. Niemi, H. & Multsilta, J. (eds.). Jyväskylä: PS-kustannus, p. 174-186 13 p. (Opetus 2000).

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

#### **Designing Learning Ecosystems for Mobile Social Media**

Multsilta, J., 2012, *Informed Design of Educational Technologies in Higher Education*. Olofsson, A. D. & Lindberg, J. O. (eds.). IGI Global, p. 270-291 22 p.

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

#### **The Definition of Informatics Competencies in Finnish Healthcare and Social Welfare Education**

Värri, A., Tiainen, M., Rajalahti, E., Kinnunen, U. M., Saarni, L. & Ahonen, O., 16 Jun 2020, *Digital Personalized Health and Medicine: Proceedings of MIE 2020*. IOP Press, p. 1143-1147 5 p. (Studies in Health Technology and Informatics; vol. 270).

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

#### **Internal and external stakeholders' impact on product development curriculum design**

Lindsten, H., Auvinen, P. & Juuti, T., 12 Sep 2019, *DS 95: Proceedings of the 21st International Conference on Engineering and Product Design Education (E&PDE 2019)*, University of Strathclyde, Glasgow. 12th -13th September 2019. The Design Society

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

#### **Adapting the New ACRL Framework to IL Education at Tampere University of Technology**

Sipilä, M., Miettinen, M. & Tevaniemi, J., 20 Feb 2019, *Information Literacy in Everyday Life: ECIL 2018*. Springer Nature, (Communications in Computer and Information Science; vol. 989).

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

#### **Lifelong learning with a digital math game: Performance and basic experience differences across age**

Greipl, S., Moeller, K., Kiili, K. & Ninaus, M., 2019, *Games and Learning Alliance- 8th International Conference, GALA 2019, Proceedings*. Liapis, A., Yannakakis, G. N., Gentile, M. & Ninaus, M. (eds.). Springer, p. 301-311 11 p. (Lecture Notes in Computer Science; vol. 11899).

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

#### **Motivational orientations and learning strategies of engineering students using MSLQ**

Pyrhönen, V-P., 21 Sep 2018, *Proceedings of the 46th SEFI Annual conference: Creativity, Innovation and Entrepreneurship for Engineering Education Excellence*. European Society for Engineering Education SEFI, p. 411-418 8 p.

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

#### **Practice makes perfect! Developing internship process in Finnish universities**

Virkki-Hatakka, T., Pajarre, E., Heikkilä, M., Hietaniemi, R., Pajari, S. & Tompuri, H., 21 Sep 2018, *Proceedings of the SEFI annual conference 17-22 September 2018*. European Society for Engineering Education SEFI, p. 1402-1408

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

#### **From systematic design process towards teaching product designer's toolkit**

Lehtonen, T., Juuti, T., Rättyä, K., Pakkanen, J. & Vanhatalo, M., 5 Sep 2018, *Proceedings of 20th International Conference on Engineering & Product Design Education: 6 & 7 September 2018, Dyson School of Design Engineering, Imperial College London, UK*. Bohemia, E., Kovacevic, A., Buck, L., Childs, P., Green, S., Hall, A. & Dasan, A. (eds.). The Design Society, Vol. 93. p. 92-97 6 p.

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

#### **Projektityöskentely matematiikan opiskelussa yläkoululaisten ja heidän opettajiensa kokemana**

Viro, E., Joutsenlahti, J. & Eriksson, S-L., 31 Oct 2017, *2017: Proceedings of the annual FMSERA symposium 2016*. (Proceedings of the FMSERA annual symposium).

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

### **Vygotsky's Zone of Proximal Development in Connection with Technology-Enhanced Learning Environments**

Pyrhönen, V-P., 18 Sep 2017, *Proceedings of the 45th SEFI Annual Conference*. Quadrado, J., Bernardino, J. & Rocha, J. (eds.). European Society for Engineering Education SEFI, p. 1206-1213 8 p.

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

### **Pedagogical Content Knowledge in Product Development Education**

Juuti, T., Rättyä, K., Lehtonen, T. & Kopra, M-J., 7 Sep 2017, *Proceedings of the 19th International Conference on Engineering and Production Design Education, 2017, Oslo, Norway, 7th - 8th September 2017*. The Design Society, p. 483-488 6 p.

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

### **Structural development of substance in engineering education: Method of cornerstones**

Korpela, A., Tarhasaari, T., Kettunen, L., Mikkonen, R. & Kinnari-Korpela, H., 2017, *Interactive Collaborative Learning - Proceedings of the 19th ICL Conference - Volume 1*. Springer Verlag, p. 566-576 11 p. (Advances in Intelligent Systems and Computing; vol. 544).

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

### **A teacher? A mentor? A friend? - Teacher mentoring experience at Tampere University of Technology**

Niemi, T., Kalliomäki, H. & Pajarre, E., 2017, *Proceedings of the 45th SEFI Annual Conference 2017 - Education Excellence for Sustainability, SEFI 2017*. European Society for Engineering Education SEFI, p. 1352-1361 10 p.

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

### **Assessing business learning by analysing ERP simulation log files**

Nisula, K. & Pekkola, S., 10 Dec 2016, *AIS SIGED 2016 Conference on IS education and Research. : Dublin, Ireland, December 10-11, 2016*. Dublin

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

### **How to develop a new innovation education tool: case of impact canvas**

Aarikka-Stenroos, L., Boedeker, S., Köppä, L. & Langwaldt, J., Dec 2016, *In the Proceedings of ISPIM Innovation Summit. The International Society for Professional Innovation Management (ISPIM). : 4-7 December 2016, Kuala Lumpur, Malaysia..*

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

### **Affective experiences and student engagement in higher education**

Helander, N., Boedeker, M., Hellsten, P., Jussila, J., Myllärniemi, J. & Tukiainen, M., 13 Sep 2016, *44th Annual Conference Of The European Society For Engineering Education: 12-15 September 2016, Tampere, Finland*. Tampere

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

### **Integrating mobile orienteering to team forming activity in a software engineering course**

Väätäjä, H. & Ahtinen, A., Sep 2016, *SEFI 2016 Annual Conference Proceedings: Engineering Education on Top of the World: Industry University Cooperation*. European Society for Engineering Education SEFI

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

### **I feel great - university students affective experiences on learning and teaching**

Tukiainen, M., Helander, N., Hellsten, P., Jussila, J., Myllärniemi, J. & Boedeker, M., 4 Jul 2016, *Proceedings of EDULEARN16 Conference: 8th International Conference on Education and New Learning Technologies, 4-6 July, 2016*.

Gómez Chova, L., López Martínez, A. & Candel Torres, I. (eds.). Barcelona: IATED Academy, Vol. 8. p. 4453-4460 8 p. (EDULEARN Proceedings).

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

### **Utilizing electronic exams in programming courses: a case study**

Saari, M. & Mäkinen, T., 2016, *EDULEARN16 Proceedings : 8th International Conference on Education and New Learning Technologies Barcelona, Spain. 4-6 July, 2016*. IATED, p. 7155-7160 6 p. (EDULEARN proceedings).

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

### **STACK assignments in university mathematics education**

Mäkelä, A.-M., Ali-Löytty, S., Humaloja, J.-P., Joutsenlahti, J., Kauhanen, J. & Kaarakka, T., 2016, *Proceedings of the 44th SEFI Conference, 12 - 15 September 2016, Tampere, Finland*. European Society for Engineering Education SEFI, 14 p.  
Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

### **How is it sustainable? Identifying key indicators for sustainable educational design**

Sandström, N., Hytti, V., Nenonen, S. & Lonka, K., 2016, *10th INTED 2016 Conference Proceedings: 7-9 March, 2016, Valencia, Spain*. Gomes Chova, L., López Martínez, A. & Candel Torres, I. (eds.). p. 4217-4219 3 p. (INTED proceedings).  
Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

### **Virtual Reality Situational Language Trainer for Second Language: Design & Evaluation**

Korkalainen, T., Pääkylä, J., Liukkonen, T. N., Järvenpää, L., Mäkilä, T., Lappalainen, Y. & Kamppari, H., 2 Dec 2015, *GAMEON' 2015. 16th International Conference on Intelligent Games and Simulation*. Bakkes, S. & Nack, F. (eds.).  
Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

### **MYSTERY SHOPPERS RECOGNISING KNOWLEDGE SHARING BARRIERS IN HIGHER EDUCATION**

Tukiainen, M., Helander, N. & Mäkinen, M., 16 Nov 2015, *ICERI2015 Proceedings: 8th annual International Conference of Education, Research and Innovation Seville (Spain). 16th - 18th of November, 2015*. .  
Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

### **University Students' Perceptions of Academic Writing: An Academic Literacies Perspective**

Tukiainen, M., Mäkinen, M. & Helander, N., 16 Nov 2015, *ICERI2015 Proceedings: 8th annual International Conference of Education, Research and Innovation Seville (Spain). 16th - 18th of November, 2015*. p. 7589-7595 7 p.  
Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

### **Language Learning in Task Management and Task Accomplishment In Higher Education Perspectives on Content and Language Integrated Learning**

Jauni, H. & Niemelä, N., 2014, *HEPCLIL, Higher Education Perspectives on CLIL, University of Vic - Central University of Catalonia, VIC, 27 and 28 March 2014*. p. 183-203 11 p.  
Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

### **Content and Language Integration as a part of a degree reform at Tampere University of Technology**

Niemelä, N. & Jauni, H., 2014, *HEPCLIL, Higher Education Perspectives on CLIL, University of Vic - Central University of Catalonia, VIC, 27 and 28 March 2014*. p. 39-53 15 p.  
Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

### **On Actor-Network Theory and Learning Ecosystems based on Mobile Social Media**

Multisilta, J., 2011, *Proceedings of the IADIS International Conference on Mobile Learning*. Arnedillo Sánchez, I. & Isaías, P. (eds.). Lisbon, p. 193-198  
Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

### **Toimijuus ja ammatillinen kasvu**

Niiranen, S. & Nokelainen, P., 22 Mar 2020, In : *Ammattikasvatuksen aikakauskirja*. 22, 1, p. 4-7 4 p.  
Research output: Contribution to journal › Editorial › Scientific

### **Ammatillisen koulutuksen uudistus: uhka ja mahdollisuus**

Tapani, A., Raudasoja, A. & Nokelainen, P., 15 Jun 2019, In : *Ammattikasvatuksen aikakauskirja*. 21, 2, p. 4-8 5 p.  
Research output: Contribution to journal › Editorial › Scientific

### **Kohti itseohjautuvaa oppimista ammatillisessa koulutuksessa**

Nokelainen, P., 1 Mar 2019, In : *Ammattikasvatuksen aikakauskirja*. 21, 1, p. 4-9 6 p.  
Research output: Contribution to journal › Editorial › Scientific

### **Harjoitus tekee mestarin - harjoittelu maisterin? Kokemuksia uudeltaisista yliopisto-opintoihin integroiduista työelämäjaksoista**

Pajarre, E., Palosaari-Aubry, P., Virkki-Hatakka, T., Hietaniemi, R., Tompuri, H. & Pajari, S., Feb 2019, In : *Yliopistopedagogiikka*. 26, 1, p. 42-45 4 p.

Research output: Contribution to journal › Article › Scientific

### **Pääkirjoitus**

Nokelainen, P., 2016, In : *Ammattikasvatuksen aikakauskirja*. 18, 1, p. 4-6

Research output: Contribution to journal › Editorial › Scientific

### **Huomio! Obs! Alert! "Työelämä on globaalissa murroksessa ..."**

Nokelainen, P., 2016, In : *Ammattikasvatuksen aikakauskirja*. 18, 2, p. 4-8

Research output: Contribution to journal › Editorial › Scientific

### **Media ja yhteisölliset sovellukset**

Multsilta, J., 2014, *Ikätekniologia*. Leikas, J. (ed.). (Vanhustyön keskusliiton tutkimuksia; no. 2).

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

### **Oppilaiden tuottamien videoiden käyttö opetuksessa**

Multsilta, J. & Niemi, H., 2013, *Uusi oppiminen*. Eduskunta, p. 66-77 12 p. (Eduskunnan tulevaisuusvaliokunnan julkaisu; no. 8/2013).

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

### **Sosiaalinen media ja verkkovideot vihteessä ja oppimisessa**

Multsilta, J., 2012, *Tykkää tästä! Opettajan ammattietiikka sosiaalisen median ajassa*. Niemi, H. & Sarras, R. (eds.).

Jyväskylä: PS-kustannus, p. 73-82 10 p.

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

### **Avoimuus oppimisverkostossa**

Lappalainen, Y. & Sihvonen, M., 2014, *Tuovi 12: Interaktiivinen tekniikka koulutuksessa 2014-konferenssin tutkijatapaamisen artikkelit*. Viteli, J. & Östman, A. (eds.). University of Tampere, p. 37-43 (TRIM Research Reports; no. 12).

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

### **Proceedings of the SEFI 47th Annual Conference, 2019: Varietas delectat... Complexity is the new normality**

Nagy, B. V. (ed.), Murphy, M. (ed.), Järvinen, H-M. (ed.) & Kálman, A. (ed.), 30 Oct 2019, European Society for Engineering Education SEFI. 2128 p.

Research output: Book/Report › Anthology › Scientific › peer-review

### **Finnish Innovations and Technologies in Schools: a Guide towards New Ecosystems of Learning**

Niemi, H. (ed.), Multsilta, J. (ed.), Lipponen, L. (ed.) & Vivitsou, M. (ed.), 2 Oct 2014, Rotterdam: Sense Publishers. 175 p.

Research output: Book/Report › Anthology › Scientific › peer-review

### **Education and Information Technologies, Volume 19, Issue 3, September 2014: Special Issue: Special Section on Intergenerational learning and digital technologies and Special Section on Mobile and Panoramic Video in Education**

Passey, D. (ed.) & Multsilta, J. (ed.), 2014, Springer. (Education and Information Technologies; vol. 19, no. 3)

Research output: Book/Report › Anthology › Scientific › peer-review

### **Yhteiset osaamistavoitteet Tampereen korkeakoulu yhteisön tutkinnoissa – mitä ne ovat ja miten niiden saavuttamista tuetaan opetussuunnitelmatyössä?**

Pajarre, E., Kivimäki, S. & Selänne, S., 30 Sep 2019, In : *EPOOKI*. 58

Research output: Contribution to journal › Article › Professional

### **Vesihuollon koulutus ja tutkimus lähemmäksi rakennettua ympäristöä**

Katko, T. S., Aug 2019, In : *Vesitalous*. 60, 4, p. 24-25 2 p.

Research output: Contribution to journal › Article › Professional

### **Pelataan suomalainen koulu kukoistukseen**

Multsilta, J., 2014, In : *Tiedosta*. 2014, 1, p. 18 1 p.

Research output: Contribution to journal › Article › Professional



### **Matematiikan oppimisen tukeminen teknillisessä yliopistokoulutuksessa**

Pohjolainen, S., Rasila, A. & Kuosa, K., 2018, *Matematiikan opetus ja oppiminen*. Joutsenlahti, J., Silfverberg, H. & Räsänen, P. (eds.). Porvoo: Niilo Mäki Instituutti, p. 450-474 24 p.

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

### **Näkemyksiä nykyopettajuudesta yliopistossa**

Myllärniemi, J., Hellsten, P. & Helander, N., 18 Aug 2016, *PedaForum -päivät 17.–18.8.2016, Jyväskylä*.

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

### **Luennot vuorovaikutuskeinona**

Hellsten, P., Myllärniemi, J. & Helander, N., 17 Aug 2016, *PedaForum -päivät 17.–18.8.2016, Jyväskylä*.

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

### **Harjoittelukäytänteet yliopistoissa 2015: - kooste opiskeluaikaista harjoittelua kartoittaneesta kyselystä TYLLI-hankkeeseen osallistuvilla yliopistoilla. Yhteiset ja yliopistokohtaiset tulokset 1/2016**

Pajarre, E., 26 Jan 2016, Tampereen teknillinen yliopisto. 42 p.

Research output: Book/Report › Commissioned report › Professional

### **Tila haltuun! Suositukset virtuaalisen suomen opiskelun toteuttamiseen**

Lappalainen, Y., Poikolainen, M., Trapp, H., Eloranta, J., Itähaarla, A., Järvenpää, L., Kamppari, H., Korkalainen, T., Lakkala, M., Lehtonen, T., Liukkonen, T. N., Mäkilä, T., Okkonen, J., Rakkolainen, I., Rasila, M., Tapaninen, T. & Vauhkonen, T., 18 Jun 2015, Turun yliopiston Brahea-keskus. 135 p. (Turun yliopiston Brahea-keskuksen julkaisuja; no. 6)

Research output: Book/Report › Commissioned report › Professional

### **Matka AVOMerelle: Avoimuutta ja verkostomaista toimintakulttuuria tutkimassa**

Lappalainen, Y., 31 Mar 2014, University of Tampere. 104 p.

Research output: Book/Report › Commissioned report › Professional

### **Enhancing Learning in Engineering Mathematics Education: Utilising Educational Technology and Promoting Active Learning**

Kinnari-Korpela, H., 29 Mar 2019, Tampere University. 180 p. (Tampere University Dissertations; vol. 38)

Research output: Book/Report › Doctoral thesis › Monograph

### **Work-Based Learning in Vocational Education and Training: Varied Communities, Fields and Learning Pathways**

Rintala, H., 31 Jan 2020, Tampere University. (Tampere University Dissertations; vol. 196)

Research output: Book/Report › Doctoral thesis › Collection of Articles

### **Holistic Business Learning Environment: Bringing practice and integration to business education**

Nisula, K., 22 May 2019, Tampere University. 152 p. (Tampere University Dissertations; vol. 53)

Research output: Book/Report › Doctoral thesis › Collection of Articles

### **Opiskelijoiden lähestymistavat oppimiseen ja tiedon luomisen menetelmät rakennustekniikan yliopistokoulutuksessa**

Salmisto, A., 8 Mar 2019, Tampereen yliopisto. 63 p. (Tampereen yliopiston väitöskirjat; no. 30)

Research output: Book/Report › Doctoral thesis › Collection of Articles

### **Increasing girls' interest in technology education as a way to advance women in technology**

Niiranen, S., 2016, University of Jyväskylä. (Jyväskylä studies in education, psychology and social research 71)

Research output: Book/Report › Doctoral thesis › Collection of Articles

### **Osaamisperustaisuuden arviointia tentillä**

Pyrhönen, V-P., 16 Aug 2018, p. 93. 1 p.

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

**The significance of self-regulation in digitalized online courses**

Pyrhönen, V-P., 24 Jan 2018.

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

**Informaatiolukutaidon uudet kehukset tiedonhankintataitojen opetuksessa TTY:llä**

Sipilä, M., Miettinen, M. & Tevaniemi, J., 17 Aug 2017.

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