

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

Wortha, S. M., Bloechle, J., Ninaus, M., Kiili, K., Lindstedt, A., Bahnmueller, 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

### **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

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

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### **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

### **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

### **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

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

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

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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

### **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

### **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

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

Translated title of the contribution: : Common learning objectives in degrees in Tampere universities - what are they and how are they supported to be recognized in curriculum work?

Pajarre, E., Kivimäki, S. & Selänne, S., 30 Sep 2019, In : EPOOKI. 58  
Research output: Contribution to journal › Article › Professional

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

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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

**Vesihuollon koulutus ja tutkimus lähemmäksi rakennettua ympäristöä**

Translated title of the contribution: : Water services education and research closer to the built environment  
Katko, T. S., Aug 2019, In : Vesitalous. 60, 4, p. 24-25 2 p.  
Research output: Contribution to journal › Article › Professional

**Ammatillisen koulutuksen uudistus: uhka ja mahdollisuus**

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

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

**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

**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

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Research output: Contribution to journal › Editorial › Scientific

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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

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

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

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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

### **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

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

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

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

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

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

Translated title of the contribution: : Vocational teachers' views on their professional competence and cooperation with working life Abstract

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

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

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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.

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### **Osaamisperustaisuuden arviointia tentillä**

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

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

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

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

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

### **Urbanisoituvaa yliopistokampus informaalin oppimisen mahdollistajana**

Translated title of the contribution: : The urbanizing university campus in enabling informal learning

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### **Gender and technology education**

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

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

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

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

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

**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

**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.

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

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

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**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).

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

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### **Näkemyksiä nykyopettajuudesta yliopistossa**

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

### **Luennot vuorovaikutuskeinona**

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

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

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

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

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

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

Translated title of the contribution: : Internship practices of universities in 2015: - a summary of a survey of internship practices within universities participating TYYLI project. general and university specific results 1/2016

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

Research output: Book/Report › Commissioned report › Professional

### **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

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

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

### **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

### **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

### **Pääkirjoitus**

Translated title of the contribution: : Editorial

Nokelainen, P., 2016, In : *Ammattikasvatuksen aikakauskirja*. 18, 1, p. 4-6  
Research output: Contribution to journal › Editorial › Scientific

### **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

### **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.  
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### **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

### **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

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

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Research output: Book/Report › Commissioned report › Professional

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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

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

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

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

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Research output: Book/Report › Commissioned report › Professional

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

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

### **Avoimuus oppimisverkostossa**

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

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

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### **Digitaalisen tarinankerronnan monet mahdollisuudet**

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



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

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

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

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#### **Leikilliset oppimateriaalit innostavat oppimaan**

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#### **Pelataan suomalainen koulu kukoistukseen**

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Research output: Contribution to journal > Article > Professional

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