

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

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

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

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

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

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.
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*.
Research output: Contribution to journal > Review Article > 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

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

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

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

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

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

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

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

Designing Learning Ecosystems for Mobile Social Media

Multisilta, 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

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

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

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

Research output: Book/Report > Anthology > 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

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

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

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

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

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

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

Research output: Book/Report › Anthology › 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

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

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

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

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

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

Harjoitus tekee mestarin - harjoittelu maisterin? Kokemuksia uudenlaisista yliopisto-opintoihin integroiduista työelämäjaksoista

Translated title of the contribution: : Practice makes perfect?: Experiences from new kind on internships integrated into university studies

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

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

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*. Gómez 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

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

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

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

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

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

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

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. & Stuart, R. (eds.). Springer, p. 1-14 14 p.

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

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

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

Katsaus oppisopimuskoulutukseen instituutona Saksassa, Englannissa ja Suomessa

Translated title of the contribution: : Review of international research on apprenticeship training

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

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

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

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

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

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

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

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

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

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

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

Matka AVOmerelle: Avoimuutta ja verkostomaista toimintakulttuuria tutkimassa

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

Research output: Book/Report › Commissioned report › Professional

Media ja yhteisölliset sovellukset

Multisilta, J., 2014, *Ikäteknologia*. Leikas, J. (ed.). (Vanhustyön keskusliiton tutkimuksia; no. 2).

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

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

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

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

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

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

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

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

Oppilaiden tuottamien videoiden käyttö opetuksessa

Multisilta, 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

Osaamisperustaisuuden arviointia tentillä

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

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

Otos iloa – Lasten kokemuksia iloa tuottavasta oppimisympäristöstä

Translated title of the contribution: : Picture of Joy - Childrens' Experiences of Joyful Learning Environments
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

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

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

Pelataan suomalainen koulu kukoistukseen

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

Research output: Contribution to journal › Article › Professional

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

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

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

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

Prologue: Towards a Global Ecosystem

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

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

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

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

Sosiaalinen media ja verkkovideot viihteessä ja oppimisessa

Multisilta, 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

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

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

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

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

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

Survey of health informatics education in Finland in 2017

Tolonen, J. & Värri, 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

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

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

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

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

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

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

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

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

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

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

Urbanisoitua yliopistokampus informaalin oppimisen mahdollistajana

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

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

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

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

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

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

Korkalainen, T., Pääskylä, 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

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

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

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

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

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