

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

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

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

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

Leikkiliset oppimateriaalit innostavat oppimaan

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

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

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

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

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

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

Pedagogical Content Knowledge in Product Development Education

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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

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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

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

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Research output: Book/Report > Doctoral thesis > Monograph

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

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

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

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

Matka AVOmerelle: Avoimuutta ja verkostomaista toimintakulttuuria tutkimassa

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

Research output: Book/Report > Commissioned report > Professional

Tila haltuun! Suositukset virtuaalisen suomen opiskelun toteuttamiseen

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Research output: Book/Report > Commissioned report > Professional

Avoimuus oppimisverkostossa

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

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

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

Internal and external stakeholders' impact on product development curriculum design

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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

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

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

Pelataan suomalainen koulu kukoistukseen

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Research output: Contribution to journal › Article › Professional

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

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

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

Videot nuorten maailmassa ja digitaalinen tarinankerronta

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

Oppilaiden tuottamien videoiden käyttö opetuksessa

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

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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

Näkemyksiä nykyopettajuudesta yliopistossa

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

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Research output: Book/Report › Anthology › 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

Teacher perceptions of teaching CLIL courses

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

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

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

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

Epilogue: What are Innovations in the Finnish Educational Ecosystem

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

Kansainvälinen jakamisen pedagogiikka

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

Koulu rajattomuuden keskellä

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

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

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

Female technology education teachers' experiences of Finnish craft education

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

Gender and technology education

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

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

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

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

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

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Research output: Contribution to journal › Editorial › Scientific

Assessing business learning by analysing ERP simulation log files

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

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

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

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

Self-regulation and competence in work-based learning

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

Kohti itseohjautuvaa oppimista ammatillisessa koulutuksessa

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Research output: Contribution to journal › Editorial › Scientific

Harjoittelukäytänteet yliopistoissa 2015: - kooste opiskeluaikaista harjoittelua kartoittaneesta kyselystä TYyli-hankkeeseen osallistuville yliopistoille. Yhteiset ja yliopistokohtaiset tulokset 1/2016

Translated title of the contribution: : Internship practices of universities in 2015: - a summary 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 uudentyyppisistä 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

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

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

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

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

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

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

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

Osaamisperustaisuuden arviointia tentillä

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

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

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

Urbanisoituvu 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

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

Katsaus oppisopimuskoulutukseen instituutiona 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

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

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

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

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