

Pirita Seitamaa-Hakkarainen
Professor, Supervisor for doctoral programme
Department of Education
Maker@STEAM
Maker culture, Design learning and Technology (MaDe)
Doctoral Programme in School, Education, Society, and Culture
Type of address: Postal address.
PL 9 (Siltavuorenpenger 1A)
00014
Finland
Email: pirita.seitamaa-hakkarainen@helsinki.fi



Publications

Teachers as reflective learning experience designers: Bringing design thinking into school-based design and maker education

Bosch, N., Härkki, T. & Seitamaa-Hakkarainen, P., Mar 2025, In: International Journal of Child-Computer Interaction. 43, 100695.

Research On K-12 Maker Education in the Early 2020s – A Systematic Literature Review

Davies, S. & Seitamaa-Hakkarainen, P., 27 Aug 2024, (E-pub ahead of print) In: International Journal of Technology and Design Education.

Teachers' pedagogical beliefs in Norwegian school makerspaces

Hoibo, I., Seitamaa-Hakkarainen, P. & Groth, C., 2 Jul 2024, (E-pub ahead of print) In: International Journal of Technology and Design Education. 18 p.

Knowledge Creation through Maker Practices and the Role of Teacher and Peer Support in Collaborative Invention Projects

Davies, S. M., Seitamaa-Hakkarainen, P. & Hakkarainen, K., 21 Jun 2024, In: International Journal of Computer-Supported Collaborative Learning. 19, p. 283–310 28 p.

Creating inspiration by developing digital mood boards in student teams

Omwami, A., Lahti, H. & Seitamaa-Hakkarainen, P., 7 Feb 2024, In: Techne Series: Research in Sloyd Education and Craft Science A. 31, 1, p. 65–81 17 p.

Explorative Interaction with Materiality in Norwegian Primary School Makerspaces from the perspective of Arts and Crafts Education. Holmboe Høibo, I., Seitamaa-Hakkarainen, P & Groth, C. (accepted)

Søyland, L., Holmboe Høibo, I., Seitamaa-Hakkarainen, P. & Groth, C., 2024, (Accepted/In press) In: International Journal of Art & Design Education.

Teachers' Perceptions of the Maker Mindset and its Facilitation

Aljabaly, M., Seitamaa-Hakkarainen, P. & Kangas, K., 2024, In: Techne Series: Research in Sloyd Education and Craft Science A. 31, 1, p. 46-64 19 p.

Visuaalinen kansanperinne ja suomalainen folk metal

Silvennoinen, E., Poutiainen, A. & Seitamaa-Hakkarainen, P., 2024, (Accepted/In press) *Käsityötiede tänään ja huomenna*.

Integrating the technology acceptance model for social media-based learning with authentic leadership development: symmetric and asymmetric modeling

Asghar, M. Z., Rasool, S. F., Seitamaa-Hakkarainen, P., Arif, S. & Bano, S., 13 Nov 2023, In: Frontiers in Psychology. 14, 14 p., 1131133.

Obstacles, Solutions and Creative Agencies: How Forces and Agencies Shape the Learning Process of Weaving

Aktaş, B. M., Omwami, A., Seitamaa-Hakkarainen, P. & Mäkelä, M., 13 Nov 2023, In: The Design Journal. 21 p.

From not-yet-knowing to achieving directionality: On the roles of materiality in multi-sited, interdisciplinary studio setting
Omwami, A., Vega, L., Mehto, V., Falin, P. & Seitamaa-Hakkarainen, P., 18 Sept 2023, *Proceedings of BICCS 2023: Biennial International Conference for the Craft Sciences. Special Issue*. FORMakademisk, 9 p. (Proceedings of BICCS 2023 - Biennial International Conference for the Craft Sciences. Special Issue; vol. 16, no. 4).

Adjusting the coordination of parental foodwork practices

Torkkeli, K., Mäkelä, J. & Seitamaa-Hakkarainen, P., Sept 2023, In: *Cultural Sociology*. 17, 3, p. 309-330 22 p., 17499755221096647.

Listening to the sociomaterial: When thinking through making extends beyond the individual

Vega, L., Mäkelä, M. & Seitamaa-Hakkarainen, P., Sept 2023, In: *Design Studies*. 88, p. 1-29 29 p., 101203.

Material-led creative processes in the context of design education

Laamanen, T.-K., Mäkelä, M. & Seitamaa-Hakkarainen, P., Jun 2023, In: *Art, Design and Communication in Higher Education*. 22, 1, p. 33-54 22 p.

Symmetrical and Asymmetrical Modeling: Applying Vitae Researchers' Development Framework through the Lens of Web 2.0 Technologies for Vocational-Health Education Researchers

Asghar, M. Z., Iqbal, J., Seitamaa-Hakkarainen, P., Barbera, E., Ozbilen, F. M. & Waqar, Y., 4 May 2023, In: *Sustainability*. 15, 9, 19 p., 7514.

Individual Outfit Designs: Expanding Idea Development using Shared Mood Boards

Omwami, A., Lahti, H. & Seitamaa-Hakkarainen, P., 16 Mar 2023, In: *Art, Design and Communication in Higher Education*. 21, 2, p. 173-189 17 p.

Non-linear maker pedagogy in Finnish craft education

Härkki, T., Seitamaa-Hakkarainen, P., Vartiainen, H., Saarinen, A. & Hakkarainen, K., Mar 2023, In: *Techne Series: Research in Sloyd Education and Craft Science A*. 30, 1, p. 1-17 17 p.

Idea Generation and Knowledge Creation through Maker Practices in an Artifact-Mediated Collaborative Invention Project

Davies, S. M., Seitamaa-Hakkarainen, P. & Hakkarainen, K., 2 Feb 2023, In: *Learning, Culture and Social Interaction*. 39, 21 p., 100692.

Adoption of social media-based knowledge-sharing behaviour and authentic leadership development: evidence from the educational sector of Pakistan during COVID-19

Asghar, M. Z., Barbera, E., Rasool, S. F., Seitamaa-Hakkarainen, P. & Mohelska, H., 12 Jan 2023, In: *Journal of Knowledge Management*. 27, 1, p. 59-83 25 p.

Information Literacy as a Predictor of Work Performance: The Mediating Role of Lifelong Learning and Creativity

Naveed, M. A., Iqbal, J., Asghar, M. Z., Shaukat, R. & Seitamaa-hakkarainen, P., Jan 2023, In: *Behavioral sciences*. 13, 1, 17 p.

A cross-disciplinary workshop on 3D modelling: Students' design concepts in the bottle form design task

Yang, W., Lahti, H. & Seitamaa-Hakkarainen, P., 2023, In: *Journal of Design thinking*. 3, 2, p. 201-216 16 p.

Learning science through a collaborative invention project in primary school

Sormunen, K., Vehmaa, S. E., Seitamaa-Hakkarainen, P., Lavonen, J., Hakkarainen, K. & Juuti, K., 2023, In: *Disciplinary and interdisciplinary science education research*.

Untangling sociomateriality: Tracing social-discursive and materially embodied aspects of knowledge-creating learning through Making-Process Rugs

Seitamaa-Hakkarainen, P., Davies, S., Mehto, V., Kangas, K., Sormunen, K., Korhonen, T. & Hakkarainen, K., 2023, *Re-theorizing learning and research methods in learning research*. Damşa, C., Rajala, A., Ritella, G. & Brouwer, J. (eds.). Abingdon: Routledge, p. 193-208 16 p. (New Perspectives on Learning and Instruction).

Evaluation of In-Service Vocational Teacher Training Program: A Blend of Face-to-Face, Online and Offline Learning Approaches

Asghar, M. Z., Afzaal, M. N., Iqbal, J., Waqar, Y. & Seitamaa-Hakkarainen, P., Nov 2022, In: Sustainability. 14, 21, 28 p.

Designing and Structuring the Invention process

Sormunen, K., Kangas, K., Korhonen, T. & Seitamaa-Hakkarainen, P., 25 Oct 2022, *Invention pedagogy: The Finnish Approach to Maker Education*. Korhonen, T., Kangas, K. & Salo, L. (eds.). 1 ed. London: Routledge, p. 117-131 15 p. (Routledge Research in STEM Education).

Learning by inventing: Theoretical foundations

Hakkarainen, K. & Seitamaa-Hakkarainen, P., 25 Oct 2022, *Invention pedagogy: The Finnish approach to maker education*. Korhonen, T., Kangas, K. & Salo, L. (eds.). 1 ed. Routledge, p. 15-27 13 p.

Collaboration and co-regulation in Invention Projects

Seitamaa-Hakkarainen, P., Sormunen, K., Davies, S. M., Matilainen, J. & Hakkarainen, K., Oct 2022, *Invention pedagogy: The Finnish Approach to Maker Education*. Korhonen, T., Kangas, K. & Salo, L. (eds.). London: Routledge, p. 40-55 16 p. 4

Physiological measurements and emotional experiences of drawing and clay forming

Rankanen, M., Leinikka, M., Groth, C., Seitamaa-Hakkarainen, P., Mäkelä, M. & Huutilainen, M., Jul 2022, In: The Arts in Psychotherapy. 79, 14 p., 101899.

Pedagogical Dimensions of ePortfolio in Craft Education

Saarinen, A. H. & Seitamaa-Hakkarainen, P., 21 Jun 2022, *PATT39: On the Edge - Technology, Innovation and Education Proceedings: Designing a better world through technological Literacy for all*. Gill, D., Tuff, J., Kennedy, T., Pendergast, S. & Jamil, S. (eds.). Memorial University of Newfoundland, p. 266-273 8 p.

Challenging creativity constraints: Three design studios in craft teacher education

Lahti, H., Kangas, K., Härkki, T. & Seitamaa-Hakkarainen, P., 16 Jun 2022, In: *Techné Series: Research in Sloyd Education and Craft Science A*. 29, 1, 12 p.

Cross-age peer tutoring in a technology-enhanced STEAM project at a lower secondary school

Tenhovirta, S., Korhonen, T., Seitamaa-Hakkarainen, P. & Hakkarainen, K., Jun 2022, In: *International Journal of Technology and Design Education*. 32, 3, p. 1701–1723 23 p.

Learning Computational Thinking in Phenomena-based Co-creation Projects: Perspectives From Finland

Silander, P., Riikonen, S., Seitamaa-Hakkarainen, P. & Hakkarainen, K., 3 May 2022, *Computational Thinking Education In K-12: Artificial Intelligence Literacy and Physical Computing*. Kong, S.-C. & Abelson, H. (eds.). MIT Press, p. 103-119 17 p.

Creating new 3D forms in collaborative product design

Yang, W., Lahti, H. & Seitamaa-Hakkarainen, P., 4 Mar 2022, In: *Design and Technology Education*. 27, 1, p. 9-28 19 p.

Design Empathy in Students' Participatory Design Processes

Bosch, N., Härkki, T. & Seitamaa-Hakkarainen, P., 4 Mar 2022, In: *Design and Technology Education*. 27, 1, p. 29-48 19 p.

Social Media Tools for the Development of Pre-Service Health Sciences Researchers during COVID-19 in Pakistan

Asghar, M. Z., Arif, S., Iqbal, J. & Seitamaa-Hakkarainen, P., 6 Jan 2022, In: *International Journal of Environmental Research and Public Health*. 19, 1, 22 p., 581.

Creative expansion of knowledge-creating learning

Seitamaa-Hakkarainen, P., Jan 2022, In: *Journal of the Learning Sciences*. 31, 1, p. 138-149 12 p., 2029105.

Artifact-Mediated Collective Cognitive Responsibility in Learning Through Collaborative Designing

Oshima, J., Kawasaki, M., Ohsaki, A., Mehto, V., Seitamaa-Hakkarainen, P. & Hakkarainen, K., 2022, *International Collaboration toward Educational Innovation for All: Overarching Research, Development, and Practices - 15th International Conference on Computer-Supported Collaborative Learning, CSCL 2022*. Weinberger, A., Chen, W., Hernandez-Leo, D. & Chen, B. (eds.). ISLS International Society of the Learning Sciences, p. 312-315 4 p. (Proceedings of International Conference of the Learning Sciences, ICLS).

Mundane Practices on the Edges of Intentional Design in a Maker Project

Mehto, V., Bosch, N., Seitamaa-Hakkarainen, P. & Kangas, K., 2022, *Proceedings of the 16th International Conference of the Learning Sciences - ICLS 2022*. Chinn, C., Tan, E., Chan, C. & Kali, Y. (eds.). p. 973-976 4 p.

End Users in Students' Participatory Design Process

Bosch, N., Seitamaa-Hakkarainen, P. & Härkki, T., 27 Dec 2021, *Proceedings of the DRS LEARN x DESIGN 2021: 6th International Conference for Design Education Researchers - Engaging with Challenges in Design Education*. Bohemia, E., Nielsen, L. M., Pan, L., Börekçi, N. A. G. Z. & Zhang, Y. (eds.). London: Design Research Society, Vol. Volume 1. p. 68-77 10 p.

Cultural Levels and Pre-Service Teachers' Behaviour Towards the Use of Open Educational Resources

Asghar, M. Z., Erdoğan, Y. K. & Seitamaa-Hakkarainen, P., 13 Dec 2021, In: *Journal of Interactive Media in Education*. 2021, 1, p. 1-16 16 p., 21.

Breaching Learners' Social Distancing through Social Media during the COVID-19 Pandemic

Asghar, M. Z., Iqbal, A., Seitamaa-Hakkarainen, P. & Barbera, E., Nov 2021, In: *International Journal of Environmental Research and Public Health*. 18, 21, 21 p., 11012.

Support through Social Media and Online Class Participation to Enhance Psychological Resilience

Asghar, M. Z., Arif, S., Barbera, E., Seitamaa-Hakkarainen, P. & Kocayoruk, E., Nov 2021, In: *International Journal of Environmental Research and Public Health*. 18, 22, 19 p., 11962.

Elementary school pupils' co-inventions: products and pupils' reflections on processes

Sinervo, S., Sormunen, K., Kangas, K., Hakkarainen, K., Lavonen, J., Juuti, K., Korhonen, T. & Seitamaa-Hakkarainen, P., Sept 2021, In: *International Journal of Technology and Design Education*. 31, 4, p. 653-676 24 p.

Video Data Analysis for Tracing Emotional Aspects of Collaborative Design and Making Processes

Paavola, T., Kangas, K., Kokko, S., Riihonen, S., Mehto, V., Hakkarainen, K. & Seitamaa-Hakkarainen, P., 23 Jun 2021, In: *Techne Series: Research in Sloyd Education and Craft Science A*. 21, 3, p. 1-14 14 p.

Moments of entanglement: Following the sociomaterial trajectories of an intersubjective studio practice

Vega, L., Mäkelä, M., Chen, T. & Seitamaa-Hakkarainen, P., 3 May 2021, In: *FORMakademisk*. 14, 2, 14 p.

A Socio-Cultural Approach to Growth-Mindset Pedagogy: Maker-Pedagogy as a Tool for Developing the Next-Generation Growth Mindset

Laurell, J., Seitamaa, A., Sormunen, K., Seitamaa-Hakkarainen, P., Korhonen, T. & Hakkarainen, K., 8 Apr 2021, *Good Teachers for Tomorrow's Schools: Purpose, Values, and Talents in Education*. Kuusisto, E., Ubani, M., Nokelainen, P. & Toom, A. (eds.). Leiden: Brill, p. 296-312 17 p. (Moral Development and Citizenship Education; vol. 16).

Quiltmakers' meaning-making in Aotearoa New Zealand: Social interactions, embodied experiences and material mediation

Warner, L., Seitamaa-Hakkarainen, P. & Hakkarainen, K., 1 Mar 2021, In: *Craft Research*. 12, 1, p. 51-78 28 p.

Long-Term Use of ePortfolios in Craft Education among Elementary School Students: Reflecting the Level and Type of Craft Learning Activities

Saarinen, A., Seitamaa-Hakkarainen, P. & Hakkarainen, K., Feb 2021, In: *Design and Technology Education*. 26, 1, p. 12-28 17 p.

Co-teaching in non-linear projects: A contextualised model of co-teaching to support educational change

Härkki, T., Vartiainen, H., Seitamaa-Hakkarainen, P. & Hakkarainen, K., Jan 2021, In: Teaching and Teacher Education. 97, 14 p., 103188.

Reflections on Shared Mood Boards: Examining Craft-Education Students' Conceptual Design

Omwami, A., Lahti, H. & Seitamaa-Hakkarainen, P., 2021, *Proceedings of the DRS Learn X Design 2021: 6th International Conference for Design Education Researchers*. Bohemia, E., Nielsen, L. M., Pan, L., Börekçi, N. A. G. Z. & Zhang, Y. (eds.). London: Design Research Society, Vol. 2. p. 395–404 10 p.

The Future of Home Economics Teaching: Teachers' Reflections on 21st-Century Competencies

Kuusisaari, H., Seitamaa-Hakkarainen, P., Autio, M. & Hölttä, M., 2021, In: International journal of home economics IJHE.. 14, 2, p. 51-68 17 p.

Sociomateriality of collaboration within a small team in secondary school maker-centered learning project

Mehto, V., Riikonen, S., Kangas, K. & Seitamaa-Hakkarainen, P., Dec 2020, In: International Journal of Child-Computer Interaction. 26, 9 p., 100209.

Mapping the methodologies of the Craft Sciences in Finland, Sweden and Norway

Kokko, S., Almevik, G., Bentz Høgseth, H. & Seitamaa-Hakkarainen, P., 1 Sept 2020, In: Craft Research. 11, 2, p. 177-209 33 p.

Bringing maker practices to school: tracing discursive and materially mediated aspects of student teams' collaborative making processes

Riikonen, S., Seitamaa-Hakkarainen, P. & Hakkarainen, K., Sept 2020, In: International Journal of Computer-Supported Collaborative Learning. 15, 3, p. 319-349 31 p.

The development of pedagogical infrastructures in three cycles of maker-centered learning projects

Riikonen, S. M., Kangas, K., Kokko, S., Korhonen, T., Hakkarainen, K. & Seitamaa-Hakkarainen, P., 6 Jul 2020, In: Design and Technology Education. 25, 2, p. 29-49 21 p.

Epistemic roles of materiality within a collaborative invention project at a secondary school

Mehto, V., Riikonen, S., Hakkarainen, K., Kangas, K. & Seitamaa-Hakkarainen, P., Jul 2020, In: British Journal of Educational Technology. 51, 4, p. 1246-1261 16 p.

Co-teaching robotics and e-textiles with non-linear maker pedagogy

Härkki, T., Vartiainen, H., Seitamaa-Hakkarainen, P. & Hakkarainen, K., Jun 2020, p. 2345-2346. 2 p.

Case: Opettajat innovoivat

Sormunen, K., Seitamaa-Hakkarainen, P., Riikonen, S. & Härkki, T., 2020, *Keksimisen pedagogiikka*. Korhonen, T. & Kangas, K. (eds.). Jyväskylä: PS-kustannus, p. 121-128 8 p.

Case: Arjen haaste alakoulussa

Seitamaa-Hakkarainen, P. & Sormunen, K., 2020, *Keksimisen pedagogiikka*. Korhonen, T. & Kangas, K. (eds.). Jyväskylä: PS-kustannus, p. 57-64 8 p.

Case: Tiimiopettajuuden kehittyminen kolmen lukuvuoden aikana

Seitamaa-Hakkarainen, P., Kangas, K., Riikonen, S. & Korhonen, T., 2020, *Keksimisen pedagogiikka*. Korhonen, T. & Kangas, K. (eds.). Jyväskylä: PS-kustannus, p. 296-303 8 p.

Case: Digitaalinen portfolio tiedonrakentelun ja vuorovaikutuksen välineenä

Seitamaa-Hakkarainen, P. & Saarinen, A., 2020, *Keksimisen pedagogiikka*. Korhonen, T. & Kangas, K. (eds.). Jyväskylä: PS-kustannus, p. 192-204 13 p.

Keksintöprojektien jäsentäminen ja suunnittelun lähtökohdat

Sormunen, K., Seitamaa-Hakkarainen, P., Kangas, K. & Korhonen, T., 2020, *Keksimisen pedagogiikka*. Korhonen, T. & Kangas, K. (eds.). Jyväskylä: PS-kustannus, p. 26-47 22 p.

Kōmako Quilters' informal learning and the collective zone of proximal development: The '5x5 quilt' project

Warner, L. C., Seitamaa-Hakkarainen, P. & Hakkarainen, K., 2020, In: *Journal of Art & Communities*. 10 , 1-2, p. 67-82 16 p.

Materiality Constraining and Enabling Collaboration in Secondary School Maker Centered Learning

Mehto, V., Kangas, K. & Seitamaa-Hakkarainen, P., 2020, p. 825-826. 2 p.

The variation of the idea development process in apparel design: a multiple case study

Omwami, A., Lahti, H. & Seitamaa-Hakkarainen, P., 2020, In: *International Journal of Fashion Design, Technology and Education*. 13 , 3, p. 341-351 11 p.

Unstitching the Fabric of Informal Learning: Researching Collective Quiltmaking in Aotearoa New Zealand

Warner, L. C., Seitamaa-Hakkarainen, P. & Hakkarainen, K., 2020, *Researching Within the Educational Margins: Strategies for Communicating and Articulating Voices*. Mulligan , D. L. & Danaher , P. A. (eds.). Cham: Springer International Publishing - Palgrave Macmillan , p. 235-250 16 p. (Palgrave Studies in Education Research Methods).

Uutta luova oppiminen ja sen ohjaaminen

Hakkarainen, K. & Seitamaa-Hakkarainen, P., 2020, *Keksimisen pedagogiikka*. Korhonen, T. & Kangas, K. (eds.). Jyväskylä: PS-kustannus, p. 332-353 22 p.

Yhdessä oppiminen ja sen tukeminen

Seitamaa-Hakkarainen, P. & Hakkarainen, K., 2020, *Keksimisen pedagogiikka*. Korhonen, T. & Kangas, K. (eds.). Jyväskylä: PS-kustannus, p. 132-140 9 p.

Building Student-centric ePortfolios in Practice: Areas of Documentation in a Craft Learning Activity

Saarinen, A., Seitamaa-Hakkarainen, P. & Hakkarainen, K., 23 Oct 2019, In: *Techne Series: Research in Sloyd Education and Craft Science A*. 26, 2, p. 16-28 13 p.

The roles of material prototyping in collaborative design process at an elementary school

Yrjönsuuri, V., Kangas, K., Hakkarainen, K. & Seitamaa-Hakkarainen, P., 1 Jul 2019, In: *Design and Technology Education*. 24, 2, p. 141-162 22 p.

Koulu keksivänä yhteisönä

Seitamaa-Hakkarainen, P. & Hakkarainen, K., 26 Jan 2019, *Sähköistynvä koulu: Oppiminen ja oppimateriaalit muuttuvassa tietoympäristössä*. Tossavainen, T. & Löytönen, M. (eds.). Helsinki: Suomen tietokirjailijat, p. 79-97 19 p.

Material objects as tools for organizing collaboration in makercentered learning

Yrjönsuuri, V., Kangas, K. & Seitamaa-Hakkarainen, P., 2019, *FabLearn Europe 2019 - Conference on Creativity and Making in Education: ACM International Conference Proceeding Series*. New York, NY: Association for Computing Machinery, 3 p.

Validating Entrepreneurial Intentions Questionnaire to Assess the Impact of Entrepreneurship Education

Asghar, M. Z., Gul, F., Seitamaa-Hakkarainen, P. & Tasdemir, M. Z., 2019, In: *Eğitim ve bilim*. 44, 197, p. 383-399 17 p.

Preschoolers' Peer Collaboration on a Designing Task

Yliveronen, V., Marjanen, P. & Seitamaa-Hakkarainen, P., Dec 2018, In: *The journal of design and technology education*. 23, 2, p. 106-128 23 p.

A Multi-Method Case Study of Textile Craft-Design Applications – Usability and Effects on the Design Process

Riikonen, S. & Seitamaa-Hakkarainen, P., 1 Oct 2018, In: *Art, Design and Communication in Higher Education*. 17, 2, p. 217-236 20 p.

Idea Generation and the Shared Epistemic Object of Knowledge in an Artifact-Mediated Co-Invention Project

Riikonen, S., Seitamaa-Hakkarainen, P. & Hakkarainen, K., Aug 2018, *22nd Annual Knowledge Building Summer Institute: Knowledge Building: A Place for Everyone in a Knowledge Society: KBSI 2018 Proceedings*. Toronto, Ontario, Canada: Knowledge Building International, p. 65-73 9 p.

Bringing Practices of Co-Design and Making to Basic Education

Riikonen, S., Seitamaa-Hakkarainen, P. & Hakkarainen, K., Jun 2018, *Rethinking Learning in the Digital Age: Making the Learning Sciences Count, 13th International Conference of the Learning Sciences (ICLS) 2018*. Kay, J. & Luckin, R. (eds.). London, UK: ISLS International Society of the Learning Sciences, Vol. Volume 1. p. 248-255 8 p.

Line by line, part by part: collaborative sketching for designing

Härkki, T., Seitamaa-Hakkarainen, P. & Hakkarainen, K., Jun 2018, In: *International Journal of Technology and Design Education*. 28, 2, p. 471-494 24 p.

Ryhmän oppimismotivaatio ja sitoutuminen yhteisöllisessä keksintöprojektissa

Riikonen, S., Sormunen, K., Korhonen, T., Kangas, K., Seitamaa-Hakkarainen, P. & Hakkarainen, K., 20 Apr 2018, *Motivaatio ja oppiminen*. Salmela-Aro, K. (ed.). Jyväskylä: PS-kustannus, p. 161-180 20 p.

Collaborative Design Work in Technology Education

Kangas, K. & Seitamaa-Hakkarainen, P., 2018, *Handbook of Technology Education*. de Vries, M. J. (ed.). Cham: Springer International Publishing, p. 597-609 13 p. (Springer International Handbooks of Education; no. 1).

Exploring the contribution of students with learning difficulties in an inclusive co-invention project

Sormunen, K., Hakkarainen, K., Riikonen, S., Seitamaa-Hakkarainen, P., Juuti, K., Lavonen, J. & Korhonen, T., 2018, *22nd Annual Knowledge Building Summer Institute: Knowledge building: a place for everyone in a knowledge society: KBSI 2018 Proceedings*. Toronto, Ontario, Canada: Knowledge Building International, p. 179-185 7 p.

Hands on Design: Comparing the use of sketching and gesturing in collaborative designing

Härkki, T., Seitamaa-Hakkarainen, P. & Hakkarainen, K., 2018, In: *Journal of Design Research*. 16, 1, p. 24-46 23 p.

Long-Term Teacher Orchestration of Technology-mediated Collaborative Inquiry

Viilo, M., Seitamaa-Hakkarainen, P. & Hakkarainen, K., 2018, In: *Scandinavian Journal of Educational Research*. 62, 3, p. 407-432 26 p.

The student-produced electronic portfolio in craft education

Saarinen, A., Seitamaa-Hakkarainen, P., Hakkarainen, K., R., L. (Editor) & J., K. (Editor), 2018, In: *Proceedings : International Conference of the Learning Sciences*. 3, 2018-June, p. 1417-1418 2 p.

Why our brains love arts and crafts: Implications of creative practices on psychophysical well-being

Huotilainen, M., Rankanen, M., Groth, C., Seitamaa-Hakkarainen, P. & Mäkelä, M., 2018, In: *FORMakademisk*. 11, 2, p. 1-17 17 p.

Towards design hybridity: Negotiating traditions through contemporary craft making in Finland

Kouhia, A. & Seitamaa-Hakkarainen, P., 1 Sept 2017, In: *Craft Research*. 8, 2, p. 169-192 24 p.

Pedagogical Infrastructures of Design Studio Learning

Seitamaa-Hakkarainen, P., Härkki, T., Lahti, H. & Hakkarainen, K., 24 May 2017, In: *Journal of textile design, research and practice*. 4 (2016), 2, p. 155-181 26 p.

Balancing structure and flexibility: Teacher's orchestration in collaborative long-term inquiry

Viilo, M., Seitamaa-Hakkarainen, P. & Hakkarainen, K., 2017, *Enquiry and project based learning: Students, schools and society*. Leat, D. (ed.). London: Routledge

Learning by Making

Seitamaa-Hakkarainen, P. & Hakkarainen, K., 2017, *The SAGE encyclopedia of out-of-school learning*. Peppler, K. (ed.). Thousand Oaks, California: Sage

Cognitive and Embodied Competences in Weaving Design

Seitamaa-Hakkarainen, P., 16 Nov 2016, *The Common Thread : The Warp and Weft of Thinking*. Gliszczynski, V. V., Raabe, E. C. & Suhrbier, M. (eds.). Bielefeld: Kerber Verlag, p. 122-131 10 p.

The Functions and Benefits of the ePortfolio in Craft Education at the Primary Level

Saarinen, A., Seitamaa-Hakkarainen, P. & Hakkarainen, K., Nov 2016, In: *Design and Technology Education*. 21, 3, p. 29-40 12 p.

Luovuuden reunaehdot yksilön ja työyhteisön toiminnassa

Mäkelä, M., Seitamaa-Hakkarainen, P. & Huotilainen, M., Oct 2016, *Mielen salat*. Ylikangas, M. (ed.). Helsinki: Gaudeamus Helsinki University Press, p. 73-81 19 p.

Learning craft skills: exploring preschoolers' craft-making process

Yliveronen, V. & Seitamaa-Hakkarainen, S. P., 23 Jun 2016, In: *Techne Series: Research in Sloyd Education and Craft Science A*. 23, 2, p. 1-15 15 p.

How can neuroscience help understand design and craft activity? The promise of cognitive neuroscience in design studies

Seitamaa-Hakkarainen, P., Huotilainen, M., Mäkelä, M., Groth, C. & Hakkarainen, K., Jun 2016, In: *FORMakademisk*. 9, 1, p. 1-16 16 p.

Physiological measurements of drawing and forming activities

Leinikka, M., Huotilainen, M., Seitamaa-Hakkarainen, P., Groth, C., Rankanen, M. & Mäkelä, M., Jun 2016, *Proceedings of DRS2016: Design + Research + Society - Future-Focused Thinking*. Lloyd, P. & Bohemia, E. (eds.). London: Design Research Society, Vol. Volume 7. p. 2941-2958 18 p. (Proceedings of DRS; vol. 2016).

Textile teacher students' collaborative design processes in a design studio setting

Lahti, H., Seitamaa-Hakkarainen, P., Kangas, K., Härkki, T. & Hakkarainen, K., 1 Apr 2016, In: *Art, Design and Communication in Higher Education*. 15, 1, p. 35-54 20 p.

An Analysis of the Relationship between the Components of Entrepreneurship Education and the Antecedents of Theory of Planned Behavior

Asghar, M. Z., Seitamaa-Hakkarainen, P. & Nada, N., 2016, In: *Pakistan journal of commerce and social sciences*. 10, 1, p. 45-68 24 p.

Material knowledge in collaborative designing and making - A case of wearable sea creatures: A case of wearable sea creatures

Härkki, T., Seitamaa-Hakkarainen, P. & Hakkarainen, K., 2016, In: *FORMakademisk*. 9, 1, p. 1-21 21 p.

Material mediation and embodied actions in collaborative design process

Lahti, H., Kangas, K., Koponen, V. & Seitamaa-Hakkarainen, P., 2016, In: *Techne Series: Research in Sloyd Education and Craft Science A*. 23, 1, p. 15-29 15 p.

Interaction and Embodiment in Craft Teaching

Koskinen, A., Seitamaa-Hakkarainen, P. & Hakkarainen, K., 2015, In: *Techne Series: Research in Sloyd Education and Craft Science A*. 22, 1, p. 59-72 14 p.

Tactile augmentation: A multimethod for capturing experiential knowledge

Groth, C., Mäkelä, M. & Seitamaa-Hakkarainen, P., 2015, In: *Craft Research*. 6, 1, p. 57-81 25 p.

An automatic open-source analysis method for video and audio recordings of co-design processes

Toivanen, M., Huutilainen, M., Chi, H. & Seitamaa-Hakkarainen, P., Jun 2014, *Proceedings of DRS 2014: Design's Big Debates: Design Research Society Biennial International Conference, 16-19 June 2014, Umeå, Sweden*. Lim, Y.-K., Niedderer, K., Redström, J., Stolterman, E. & Valtonen, A. (eds.). Umeå: Design Research Society, Umeå Institute of Design, Umeå University, p. 921-931 10 p.

Interview Study of Professional Designers' Ideation Approaches

Laamanen, T.-K. & Seitamaa-Hakkarainen, P., Jun 2014, In: *The Design Journal*. 17, 2, p. 194-217 24 p.

Tactile augmentation: reaching for tacit knowledge

Groth, C., Mäkelä, M., Seitamaa-Hakkarainen, P. & Kosonen, K., Jun 2014, *Proceedings of DRS 2014: Design's Big Debates: Design Research Society Biennial International Conference, 16-19 June 2014, Umeå, Sweden*. Lim, Y.-K., Niedderer, K., Redström, J., Stolterman, E. & Valtonen, A. (eds.). Umeå: Design Research Society, Umeå Institute of Design, Umeå University, p. 1638-1655 18 p.

The promise of cognitive neuroscience in design studies

Seitamaa-Hakkarainen, P., Huutilainen, M., Mäkelä, M., Groth, C. & Hakkarainen, K., Jun 2014, *Proceedings of DRS 2014: Design's Big Debates: Design Research Society Biennial International Conference, 16-19 June 2014, Umeå, Sweden*. Lim, Y.-K., Niedderer, K., Redström, J., Stolterman, E. & Valtonen, A. (eds.). Umeå: Design Research Society, Umeå Institute of Design, Umeå University, p. 834-846 9 p.

The quality of design in 9th grade pupils' design-and-make assignments in craft education

Syrjäläinen, E. & Seitamaa-Hakkarainen, P., Jun 2014, In: *The journal of design and technology education*. 19, 2, p. 30-39 10 p.

Constraining an open-ended design task by interpreting sources of inspiration

Laamanen, T.-K. & Seitamaa-Hakkarainen, P., Jan 2014, In: *Art, Design and Communication in Higher Education*. 13, 2, p. 135-156 22 p.

Designing teaching—teaching designing: Teacher's guidance in a virtual design studio

Lahti, H. & Seitamaa-Hakkarainen, P., 2014, In: *Journal of Learning Design*. 7, 1, p. 10-26 17 p.

Internet ja sosiaalinen media käsityötieteiden tutkimuksen lähteenä ja paikkana – aineistojen muodot ja analyysit

Seitamaa-Hakkarainen, P. & Koskenurmi-Sivonen, R., 2014, *Kättä pidempää: Otteita käsityön tutkimuksesta ja käsitteellistämisestä*. Karppinen, S., Kouhia, A. & Syrjäläinen, E. (eds.). Helsinki: Helsingin yliopisto, opettajankoulutuslaitos, p. 116-131 16 p. (Kotitalous- ja käsityötieteiden julkaisuja; no. 33).

Näkökulmia kehittämistutkimukseen käsityötieteessä

Lahti, H. & Seitamaa-Hakkarainen, P., 2014, *Kättä pidempää: Otteita käsityön tutkimuksesta ja käsitteellistämisestä*. Karppinen, S., Kouhia, A. & Syrjäläinen, E. (eds.). Helsinki: Helsingin yliopisto, opettajankoulutuslaitos, p. 89-101 13 p. (Kotitalous- ja käsityötieteiden julkaisuja; no. 33).

Suunnittelutehtävät, inspiraationlähteet ja ideointi

Laamanen, T.-K. & Seitamaa-Hakkarainen, P., 2014, *Suunnittelusta käsin: Käsityön tutkimuksen ja opetuksen vuoropuhelua*. Nuutinen, A., Fernström, P., Kokko, S. & Lahti, H. (eds.). Helsinki: Helsingin yliopisto, opettajankoulutuslaitos, p. 12-25 14 p. (Kotitalous- ja käsityötieteiden julkaisuja; no. 36).

Tracing design work through contextual activity sampling

Laamanen, T.-K., Seitamaa-Hakkarainen, P. & Hakkarainen, K., 2014, *Design, User Experience, and Usability: Theories, Methods, and Tools for Designing the User Experience: Third International Conference, DUXU 2014 Held as Part of HCI International 2014 Heraklion, Crete, Greece, June 22-27, 2014 Proceedings, Part I*. Marcus, A. (ed.). Heidelberg: Springer, Vol. Part 1. p. 142-152 11 p. (Lecture Notes in Computer Science; no. 8517).

Craft education: authentic design constraints, embodied thinking, and craft making

Seitamaa-Hakkarainen, P. & Kangas, K., 14 May 2013, *Proceedings of the 2nd International Conference for Design Education Researchers: 14-17 May 2013, Oslo, Norway: Volume 3*. Reitan, J. B., Lloyd, P., Bohemia, E., Nielsen, L. M., Digranes, I. & Lutnæs, E. (eds.). Oslo: ABM-media, Vol. Volume 3. p. 1369-1383 15 p.

Designing teaching—teaching designing: teacher's guidance in a virtual design studio

Lahti, H. & Seitamaa-Hakkarainen, P., 14 May 2013, *Proceedings of the 2nd International Conference for Design Education Researchers: 14-17 May 2013, Oslo, Norway: Volume 2*. Reitan, J. B., Lloyd, P., Bohemia, E., Nielsen, L. M., Digranes, I. & Lutnæs, E. (eds.). Oslo: ABM-media, Vol. Volume 2. p. 1013-1029 17 p.

The Images of the Future of Craft and Design students – professional narratives of working practices in 2020

Soini-Salomaa, K. & Seitamaa-Hakkarainen, P., 25 Mar 2013, In: *Art, Design and Communication in Higher Education*. 11, 1, p. 17-32 16 p.

Design expert's participation in elementary students' collaborative design process

Kangas, K., Seitamaa-Hakkarainen, P. & Hakkarainen, K., 2013, In: *International Journal of Technology and Design Education*. 23, 2, p. 161-178 18 p.

Design Thinking in Elementary Students' Collaborative Lamp Designing Process

Kangas, K., Seitamaa-Hakkarainen, P. & Hakkarainen, K., 2013, In: *The journal of design and technology education*. 18, 1, p. 30-43 14 p.

Figuring the world of designing: Expert participation in elementary classroom

Kangas, K., Seitamaa-Hakkarainen, P. & Hakkarainen, K., 2013, In: *International Journal of Technology and Design Education*. 23, 2, p. 425-442 18 p.

Interagency, collective creativity, and academic knowledge practices

Hakkarainen, K., Hytönen, K., Makkonen, J., Seitamaa-Hakkarainen, P. & White, H., 2013, *Learning and collective creativity: Activity-theoretical and socio-cultural studies*. Sannino, A. & Ellis, V. (eds.). New York: Routledge, p. 77-95 19 p. (Routledge Research in Education).

Making sense: What can we learn from experts of tactile knowledge?

Groth, C., Mäkelä, M. & Seitamaa-Hakkarainen, P., 2013, In: *FORMakademisk*. 6, 2, p. 1-12 12 p.

Materiality and Emotions in Making

Seitamaa-Hakkarainen, P., Laamanen, T.-K., Viitala, J. & Mäkelä, M., 2013, In: *Techne Series: Research in Sloyd Education and Craft Science A*. 20, 3, p. 5–19 14 p.

Oppimisen ohjaaminen teknologia-intensiivisessä oppimisympäristössä

Viilo, M., Seitamaa-Hakkarainen, P., Kangas, K. & Hakkarainen, K., 2013, *Oppiminen ja pedagogiset käytännöt varhaiskasvatuksesta perusopetukseen*. Pyhältö, K. & Vitikka, E. (eds.). Helsinki: Opetushallitus, p. 203-217 15 p. (Oppaat ja käsikirjat; no. 2013:9).

Sociocultural perspectives on collaborative learning: Towards collaborative knowledge creation

Hakkarainen, K., Paavola, S., Kangas, K. & Seitamaa-Hakkarainen, P., 2013, *The International Handbook of Collaborative Learning*. Hmelo-Silver, C. E., Chinn, C. A., Chan, C. K. K. & O'Donnell, A. M. (eds.). New York: Routledge, p. 57-73 17 p.

Infrastructures for technology-supported collective inquiry learning in science

Viilo, M., Seitamaa-Hakkarainen, P. & Hakkarainen, K., 4 Dec 2012, *Orchestrating inquiry learning: Contemporary Perspectives on supporting scientific inquiry learning*. Littleton, K., Scanlon, E. & Sharples, M. (eds.). London: Routledge, p. 128-145 18 p.

Architecture Project: City Plan, Home and Users - Children as Architects

Seitamaa-Hakkarainen, P., Kangas, K., Raunio, A.-M. & Viilo, M., 2012, In: *Procedia : Social and Behavioral Sciences*. 45, p. 21-31 11 p.

Collaborative Design Practices in Technology Mediated Learning

Seitamaa-Hakkarainen, P., Kangas, K., Raunio, A.-M. & Hakkarainen, K., 2012, In: The journal of design and technology education. 17, 1, p. 54-65 12 p.

Peer Collaboration and Mediation in Elementary Students' Lamp Designing Process.

Kangas, K. & Seitamaa-Hakkarainen, P., 2012, *The Future of Learning: ICLS 2012 Conference Proceedings, Volume 1 - Full Papers: Proceedings of the 10th International Conference of the Learning Sciences (ICLS 2012)*. van Alst, J., Thompson, K., Jacobson, M. J. & Reimann, P. (eds.). Sydney, NSW, AUSTRALIA: ISLS International Society of the Learning Sciences, Vol. Volume 1. p. 267 – 274 8 p.

The Teacher's Balance between Structure and Flexibility in the Technology-Enhanced Collaborative Inquiry Setting

Viilo, M., Seitamaa-Hakkarainen, P. & Hakkarainen, K., 2012, *The Future of Learning: Proceedings of the 10th International Conference of the Learning Sciences (ICLS 2012) - Volume 2, Short Papers, Symposia, and Abstracts: Proceedings of the 10th International Conference of the Learning Sciences (ICLS 2012)*. van Alst, J., Thompson, K., Jacobson, M. J. & Reimann, P. (eds.). Sydney: ISLS International Society of the Learning Sciences, Vol. Vol 2. p. 346-350 5 p.

Enhancing the Social and Cognitive Benefits of Digital Tools and Media

Lafierre, T., Viilo, M., Seitamaa-Hakkarainen, P., Hakkarainen, K., Oshima, J., Scardamalia, M., Bereiter, C., Chen, B., Chuy, M., Resendes, M., van Alst, J., Chan, C., Bielaczyc, K., Hong, H.-Y. & Zhang, J., Jul 2011, *Connecting Computer-Supported Collaborative Learning to Policy and Practice: CSCL2011 Conference Proceedings Volume III - Community Events Proceedings*. Spada, H., Stahl, G., Miyake, N. & Law, N. (eds.). ISLS International Society of the Learning Sciences, Vol. Volume 3. p. 1112-1119 9 p.

Strengthening the Conceptual Foundations of Knowledge Building Theory and Pedagogy

Bielaczyc, K., Hakkarainen, K., Ritella, G., Seitamaa-Hakkarainen, P., Stahl, G., Scardamalia, M. & Bereiter, C., Jul 2011, *Connecting Computer-Supported Collaborative Learning to Policy and Practice: CSCL2011 Conference Proceedings Volume III - Community Events Proceedings*. Spada, H., Stahl, G., Miyake, N. & Law, N. (eds.). ISLS International Society of the Learning Sciences, Vol. Volume 3. p. 1089-1094 6 p.

Design Based Learning in Craft Education: Authentic problems and materialization of design thinking

Seitamaa-Hakkarainen, P., 2011, *Design Learning and Well-being: 4th International Journal of Intercultural Arts Education*. Ruismäki, H. & Ruokonen, I. (eds.). Helsinki: University of Helsinki, p. 3-14 12 p. (Research Report / University of Helsinki, Faculty of Behavioural Sciences, Department of Teacher Education ; no. 331).

Expert Participation in Elementary Students' Collaborative Design Process

Kangas, K. & Seitamaa-Hakkarainen, P., 2011, *Connecting Computer-Supported Collaborative Learning to Policy and Practice: CSCL2011 Conference Proceedings Volume II — Short Papers & Posters*. Spada, H., Stahl, G., Miyake, N. & Law, N. (eds.). ISLS International Society of the Learning Sciences, Vol. Volume 2. p. 851-855 5 p.

Näkökulmia tutkimusperustaiseen opetukseen: Ainedidaktisia tutkimuksia 1

Tainio, L. (Editor), Juuti, K. (Editor), Kallioniemi, A. (Editor), Seitamaa-Hakkarainen, P. (Editor) & Uitto, A. (Editor), 2011, Helsinki: Suomen ainedidaktinen tutkimusseura ry. 223 p. (Suomen ainedidaktisen tutkimusseuran julkaisu / Ainedidaktisia tutkimuksia ; no. 1)

Supporting the technology-enhanced collaborative inquiry and design project: A teacher's reflections on practices

Viilo, M., Seitamaa-Hakkarainen, P. & Hakkarainen, K., 2011, In: Teachers and Teaching. 17, 1, p. 51-72 22 p.

Infusing design expertise in elementary students' collaborative design process

Seitamaa-Hakkarainen, P., Kangas, K. & Hakkarainen, K., 2010, *Proceedings of Summer Institute 2010*.

Learning by collaborative designing: technology-enhanced knowledge practices

Seitamaa-Hakkarainen, P., Viilo, M. & Hakkarainen, K., 2010, In: International Journal of Technology and Design Education. 20, 2, p. 109-136 28 p.

Searching New Values for Craft Education: Can Design Based Learning Be a Solution

Seitamaa-Hakkarainen, P., 2010, *In the spirit of Uno Cygnaeus – Pedagogical Questions of Today and Tomorrow: 200th Anniversary of the Birthday of Uno Cygnaeus: Symposium 12th-13th October, 2010*. Rasinan, A. & Rissanen, T. (eds.). Jyväskylä: University of Jyväskylä, p. 71-89 19 p.

Craft design processes in virtual design studio

Seitamaa-Hakkarainen, P., 2009, *Proceedings of the Crafticulation & Education Conference*. L. K. K. (ed.). [Helsinki]: NordFo Nordic Forum for Research and Development in Craft and Design, p. 213-225 13 p. (Research in sloyd education and crafts science A).

Käsityönopetuksen tulevaisuutta etsimässä: oppimisympäristöjen ja teknologian haasteet ja mahdollisuudet

Seitamaa-Hakkarainen, P., 2009, *Näkökulmia käsityön ja käsityön opetuksen tutkimukseen: Pirkko Anttila 80-vuotta: syntymäpäiväseminaari 18.5.2009: puheenvuorojen tiivistelmät*. Koskenurmi-Sivonen, R., Raunio, A.-M. & Luutonen, M. (eds.). Helsinki: Helsingin yliopisto, p. 10-12 3 p. (Kotitalous- ja käsityötieteiden laitoksen työpapereita; no. 2).

Pohdintoja käsityön kuvasta

Seitamaa-Hakkarainen, P., 2009, *Taide ja taito - kiinni elämässä!: TaiTai taide- ja taitokasvatus*. T. O.T. J. T. A. A. M. H. M. H. H. J. E. K. H. K. M. M. M. P. P. S. (ed.). Helsinki: Opetushallitus, p. 63-75 13 p. (Moniste / Opetushallitus).

Sources of inspiration and mental image in textile design process

Laamanen, T.-K. & Seitamaa-Hakkarainen, P., 2009, In: *Art, Design and Communication in Higher Education*. 7, 2, p. 105-119 15 p.

Taitomarkkinointi - yhteistyötä ja tutkimustietoa käsityöläisille

Seitamaa-Hakkarainen, P., 25 Jun 2008, In: *Taito Group : yrityspalvelut : tutkimukset*. 25.6.2008, p. 1-2 2 p.

Aprendizaje por diseño colaborativo en educación optimizada tecnológicamente

Seitamaa-Hakkarainen, P., 2008, In: *Revista de Investigaciones UNAD = Research magazine UNAD Long*. 7, 2, p. 13-38 26 p.

Collaboration in computer supported textile designing

Lahti, H. & Seitamaa-Hakkarainen, P., 2008, *Reinventing art of everyday making*. T.T.-G. (.). (ed.). Frankfurt am Main: Peter Lang , p. 165-180 16 p.

Käsityötiede: tuntematon tieteenala

Seitamaa-Hakkarainen, P., 2008, In: *Hiidenkivi : suomalainen kulttuurilehti*. 15, 3, p. 14-15 2 p.

Learning by collaborative designing in technology enhanced learning

Seitamaa-Hakkarainen, P., 2008, In: *Revista de Investigaciones UNAD = Research magazine UNAD Long*. 7, 2, p. 12-38 27 p.

Taitomarkkinointi: Yhteistyötä ja tutkimustietoa käsityöläisille

Seitamaa-Hakkarainen, P., 2008, In: *Taito : käsi- ja taideteollisuuslehti*. 101, 2, p. 38-39 2 p.

Three orientations of weaving design

Seitamaa-Hakkarainen, P., 2008, *Reinventing art of everyday making*. T.T.-G. (.). (ed.). Frankfurt am Main: Peter Lang , p. 183-198 16 p.

Virtuaalinen design studio oppimisympäristönä

Seitamaa-Hakkarainen, P. & Lahti, H., 2008, *Kulttuurinen välittyneisyys toiminnassa ja oppimisessa*. T. R. E. J. J. V. (ed.). [Helsinki]: Helsingin yliopisto, p. 197-224 28 p. (Technical reports / University of Helsinki, Department of Education, Center for Activity Theory and Developmental Work Research).

Yhteistyötä ja tutkimustietoa käsityöläisille

Seitamaa-Hakkarainen, P., 2008, In: Taito : käsi- ja taideteollisuuslehti. 101, 2, p. 38-39 2 p.

Asumiseen liittyvät opetushankkeet

Kivilehto, S., Malin, A., Huovinen, M., Seitamaa-Hakkarainen, P. & Hölttä, M., 2007, *Kotitalousopettajankoulutuksen verkossa on muutakin kuin kalaa: KTY-kokemuksia kaikkien käyttöön*. Aulanko, M. & Hölttä, M. (eds.). Helsinki: Helsingin yliopisto, p. 53-55 3 p. (Kotitalous- ja käsityötieteiden laitoksen työpapereita; no. 1).

CoDes - Facilitating Social Creativity through Collaborative Designing

Seitamaa-Hakkarainen, P., 2007, *Cultură, dezvoltare, identitate: perspective actuale: 10 ani de la înființarea secțiilor de Psihologie și Sociologie la Universitatea din Oradea*. Chipea, F., Cioară, I., Hatos, A., Marian, M. & Sas, C. (eds.). București: Expert, p. 665-676 12 p.

Collaborative knowledge building with conceptual and material artifacts

Kangas, K. & Seitamaa-Hakkarainen, P., 2007, *Cultură, dezvoltare, identitate: perspective actuale: 10 ani de la înființarea secțiilor de Psihologie și Sociologie la Universitatea din Oradea: sesiunea de comunicări științifice a Facultății de Științe Socio-Umane, Universitatea din Oradea, 26-27 octombrie 2007*. Chipea, F., Cioară, I., Hatos, A., Marian, M. & Sas, C. (eds.). București: Expert, p. 653-664 12 p.

Suunnitteluprosessien ja asiantuntijuuden tutkimus

Seitamaa-Hakkarainen, P., 2007, *Käsityötieteen ja käsityömuotoilun sekä teknologiakasvatuksen tutkimusohjelma Savonlinnan opettajankoulutuslaitoksessa*. Joensuu: Joensuun yliopisto, p. 22-25 4 p. (Kasvatustieteiden tiedekunnan tutkimuksia; no. 100).

The Artifact Project - history, science and design inquiry in technology enhanced learning at elementary level

Kangas, K., Seitamaa-Hakkarainen, P. & Hakkarainen, K., 2007, In: Research and Practice in Technology Enhanced Learning.. 2, 3, p. 213-237 25 p.

Verkostoituneen asiantuntijuuden jalostaminen

Seitamaa-Hakkarainen, P. & Hakkarainen, K., 2007, *Oppimisympäristöistä innovaatioiden ekosysteemiin*. Ala-Uotila, H., Frilander-Paavilainen, E.-L., Lindeman, A. & Tulkki, P. (eds.). Kotka: Kymenlaakson ammattikorkeakoulu, KyAMK, p. 86-95 10 p. (Kymenlaakson ammattikorkeakoulun julkaisuja. Sarja B ; no. 46).

Yhteisöllinen suunnittelu oppimisen kohteena ja kontekstina

Seitamaa-Hakkarainen, P., 2007, *Käsityötieteen ja käsityömuotoilun sekä teknologiakasvatuksen tutkimusohjelma Savonlinnan opettajankoulutuslaitoksessa*. Joensuu: Joensuun yliopisto, p. 56-63 8 p. (Kasvatustieteiden tiedekunnan tutkimuksia; no. 100).

Human Perspectives on Sustainable Future

Rauma, A.-L., Pöllänen, S. & Seitamaa-Hakkarainen, P., 2006, Joensuu: University of Joensuu, the Faculty of Education. 368 p. (Research Reports of the Faculty of Education, University of Joensuu; no. 99)

Kaava, koti, käyttäjä – lapset arkkitehteinä

Iivonen, M., Kangas, K. & Seitamaa-Hakkarainen, P., 2006, In: Tekstiilipettaja. 2006, 2, p. 14-15 2 p.

Käsityömuotoilun tulevaisuus

Seitamaa-Hakkarainen, P., 2006, *Tekstejä ja kangastuksia: puheenvuoroja käsityöstä ja sen tulevaisuudesta*. Kaukinen, L. & Collanus, M. (eds.). Hamina: Akatiimi, p. 186-196 11 p. (Artefakta; no. 17).

Tutkivan oppimisen periaatteita ja käytäntöjä: "trialoginen" tiedonluomisen malli

Paavola, S., Hakkarainen, K. & Seitamaa-Hakkarainen, P., 2006, *Oppimisen teoria ja teknologian opetuskäyttö*. Järvelä, S., Häkkinen, P. & Lehtinen, E. (eds.). Porvoo: WSOY Oppimateriaalit, p. 147-166 20 p.

Esineet ennen, nyt ja tulevaisuudessa: verkko-oppimisympäristö yhteisöllisen tiedonrakentamisen tukena

Seitamaa-Hakkarainen, P., Kangas, K. & Hakkarainen, K., 2005, *Opetus, opiskelu, oppiminen: tieto- ja viestintäteknikka tiederajat ylittävissä konteksteissa*. Tella, S., Ruokamo, H., Multisilta, J. & Smeds, R. (eds.). Rovaniemi: Lapin yliopisto, p. 147-165 19 p. (Lapin yliopiston kasvatustieteellisiä julkaisuja; no. 12).

Kuinka tutkiva oppiminen toteutetaan? Kokemuksia esinehankkeesta

Bollström-Huttunen, M., Seitamaa-Hakkarainen, P., Kangas, K. & Hakkarainen, K., 2005, *Tutkiva oppiminen käytännössä: matkaopas opettajille*. Hakkarainen, K., Bollström-Huttunen, M., Pyysalo, R. & Lonka, K. (eds.). Helsinki: WSOY, p. 211-249 39 p.

The Artifact Project: Knowledge building in a networked learning environment

Seitamaa-Hakkarainen, P., Kangas, K. & Hakkarainen, K., 2005, *The relationship of Nordic handicraft studies to product development and technology: Proceedings from a NordFo conference in Rauma, September 20-26 2004*. Kullas, S. & Pelkonen, M.-L. (eds.). Vasa: Nordfo, p. 87-113 27 p. (Techne-serien)(Research in sloyd education and crafts science. B; no. 14).

Towards participatory design in craft and design education

Lahti, H. & Seitamaa-Hakkarainen, P., 2005, In: *CoDesign*. 1, 2, p. 103-117 15 p.

Collaboration patterns in computer-supported collaborative designing

Lahti, H., Seitamaa-Hakkarainen, P. & Hakkarainen, K., 2004, In: *Design Studies*. 25, 4, p. 351-371 21 p.

Visualization and sketching in the design process

Seitamaa-Hakkarainen, P. & Hakkarainen, K., 2004, In: *The Design Journal*. 3, 1, p. 3-14

Piloting participatory designing within a collaborative learning environment. Journal of Interactive Learning Research .

Lahti, H. I. E., Seitamaa-Hakkarainen, P. & Hakkarainen, K., 2003, In: *Journal of Interactive Learning Research*. 14, 2, p. 185-207

Computer-support for participatory designing: A pilot study

Seitamaa-Hakkarainen, P., Lahti, H. I. E., Iivonen, M. & Hakkarainen, K., 2002, *Computer-supported collaborative learning: Foundations for a CSCL community*. Stahl, G. (ed.). Mahwah: Erlbaum

Composition and construction in experts' and novices' weaving design

Seitamaa-Hakkarainen, P. & Hakkarainen, K., 2001, In: *Design Studies*. 22, 1, p. 47-66

Computer-support for collaborative designing

Seitamaa-Hakkarainen, P., Raunio, A.-M., Raami, A., Muukkonen, H. & Hakkarainen, K., 2001, In: *International Journal of Technology and Design Education*. 11, 2, p. 181-202 22 p.

Conclusions - pedagogical guidelines for designing ITCOLE CSCL

Lakkala, M., Hakkarainen, K., Rahikainen, M. & Seitamaa-Hakkarainen, P., 2001, *Perspectives of CSCL in Europe: A review*. Lakkala, M., Rahikainen, M. & Hakkarainen, K. (eds.). 13 p. (A report for the European Commission, ITCOLE Project, IST-2000-26249).

Projects

AI in Learning

Niemi, H. (Project manager), Salmela-Aro, K. (Principal Investigator), Hakkarainen, K. (Principal Investigator), Seitamaa-Hakkarainen, P. (Principal Investigator), Korhonen, T. (Principal Investigator), Tervaniemi, M. (Principal Investigator), Huotilainen, M. (Principal Investigator), Ruokamo, H. (Principal Investigator), Kousa, P. (Other), Harju, V. (Other) & Niu, J. (Other)

01/01/2020 → 31/12/2021

Growing Mind: Educational transformations for facilitating sustainable personal, social, and institutional renewal at the digital age.

Hakkarainen, K. (Project manager), Korhonen, T. (Project manager), Lonka, K. (Principal Investigator), Lavonen, J. (Principal Investigator), Seitamaa-Hakkarainen, P. (Principal Investigator), Juuti, K. (Principal Investigator), Salo, L. (Other), Reinius, H. (Participant) & Sormunen, K. (Participant)
15/01/2018 → 31/12/2023

Handling Mind: Embodiment, Creativity and Design

Seitamaa-Hakkarainen, P. (Project manager), Mäkelä, M. (Principal Investigator), Huotilainen, M. (Principal Investigator), Syrjäläinen, E. (Principal Investigator), Hakkarainen, K. (Principal Investigator), Lahti, H. (Participant), Kangas, K. (Participant), Laamanen, T.-K. (Participant), Härkki, T. (Participant) & Kokko, S. (Participant)
Suomen Kulttuurirahasto, Suomen Akatemia
01/01/2013 → 31/12/2016

INNOKOMP- Innovaatiokompetensseja: yhteiskehittäminen, digitaalinen mallintaminen ja monimateriaalisuus käsityöopetuksen uudistajana

Seitamaa-Hakkarainen, P. (Project manager), Kallio, M. (Participant), Davies, S. (Participant), Kangas, K. (Participant), Kokko, S. (Participant), Härkki, T. (Principal Investigator), Salovaara, M. (Principal Investigator) & Bosch, N. (Participant)
01/08/2017 → 31/12/2019

INNOPLAY - Craft, design and technology (STEAM) in early childhood education

Kangas, K. (Project manager), Seitamaa-Hakkarainen, P. (Project manager), Sormunen, K. (Principal Investigator), Ansolahti, A. B. L. (Other), Pärssinen, I. L. (Participant), Davies, S. (Participant), Niinimäki, N. K. (Participant), Hilmola, A. (Participant), Aljabaly, M. (Participant), Kallio, M. (Participant) & Virta, K. (Participant)
01/08/2018 → 31/07/2021

Käsityömuotoilun ja teknologian oppimishautomo

Seitamaa-Hakkarainen, P. (Other), Lahti, H. (Project manager), Nuutinen, A. (Project manager), Kärnä-Behm, J. (Project manager) & Salo-Mattila, K. (Project manager)
01/01/2010 → 31/12/2015

Co4-Lab: Laboratory of Co-Inquiry, Co-Design, Co-Teaching and Co-Regulation (Co4-Lab)

Hakkarainen, K. (Project manager), Lavonen, J. (Principal Investigator), Seitamaa-Hakkarainen, P. (Principal Investigator), Salmela-Aro, K. (Principal Investigator), Juuti, K. (Principal Investigator), Korhonen, T. (Principal Investigator), Sormunen, K. (Principal Investigator), Koskinen-Salmia, A. (Principal Investigator), Kangas, K. (Principal Investigator), Vaahtokari, A. (Participant), Muhonen, S. (Participant), Myllyntausta, S. (Participant), Stenberg, K. (Participant), Maskonen, T. (Participant), Bosch, N. (Principal Investigator), Davies, S. (Principal Investigator), Lahti, H. (Principal Investigator) & Salo, L. (Participant)
01/09/2015 → 31/08/2019

Maker-Centered Learning: cultivating creativity in tomorrow's schools

Kangas, K. (Project manager), Seitamaa-Hakkarainen, P. (Co-Principal Investigator), Bosch, N. (Participant) & Aljabaly, M. (Participant)
01/12/2021 → 31/08/2025

Materiality, maker practices and design studio pedagogy at the digital age

Seitamaa-Hakkarainen, P. (Project manager), Kangas, K. (Co-Principal Investigator), Hakkarainen, K. (Co-Principal Investigator), Lahti, H. (Participant), Omwami, A. (Participant) & Laakso, N. L. (Participant)
01/09/2020 → 31/08/2024

Suunnitteluprosessit ja asiantuntijuus

Seitamaa-Hakkarainen, P. (Other)
01/01/2008 → 31/12/2012

Yhteisöllinen virtuaalinen suunnittelu

Seitamaa-Hakkarainen, P. (Other) & Lahti, H. (Project manager)
01/01/2008 → 31/12/2015

Activities

Torkkeli Kaisa

Mäkelä, J. (Supervisor) & Seitamaa-Hakkarainen, P. (Co-supervisor)
11 Nov 2022

Asghar Zaheer

Seitamaa-Hakkarainen, P. (Supervisor)
4 Nov 2022

Auli Saarinen

Seitamaa-Hakkarainen, P. (Supervisor) & Hakkarainen, K. (Co-supervisor)
3 Dec 2021

Ulla Rynnänen

Seitamaa-Hakkarainen, P. (Supervisor)
23 Nov 2021

RESEARCH ON COLLABORATIVE LEARNING IN CRAFTS AND DESIGN EDUCATION IN FINLAND

Seitamaa-Hakkarainen, P. (Invited speaker)
7 May 2021

Marjut Viilo

Seitamaa-Hakkarainen, P. (Supervisor) & Hakkarainen, K. (Co-supervisor)
10 Jun 2020

International Conference of the Learning Sciences 2020

Härkki, T. (Poster Presentation), Vartiainen, H. (Poster Presentation), Seitamaa-Hakkarainen, P. (Poster Presentation) & Hakkarainen, K. (Poster Presentation)
Jun 2020

University of Sydney

Seitamaa-Hakkarainen, P. (Visiting researcher)
25 Feb 2020 → 15 Apr 2020

University of Iceland

Kangas, K. (Visiting researcher), Seitamaa-Hakkarainen, P. (Visiting researcher) & Hakkarainen, K. (Visiting researcher)
4 Oct 2019 → 9 Oct 2019

Make&Learn.

Kokko, S. (Attendee), Riikonen, S. (Attendee), Kangas, K. (Attendee) & Seitamaa-Hakkarainen, P. (Attendee)
17 Sept 2019 → 20 Sept 2019

Virpi Yliverronen

Seitamaa-Hakkarainen, P. (Supervisor)
13 Sept 2019

Piia-Riitta Stenberg

Seitamaa-Hakkarainen, P. (Supervisor)
15 Mar 2019

Solja Upolan väitöskirjan vastaväittäjä, Lapin yliopisto

Seitamaa-Hakkarainen, P. (Opponent)

25 Jan 2019

Solja Upolan väitöskirjan esitarkastus, Lapin yliopisto

Seitamaa-Hakkarainen, P. (Supervisor)

17 Oct 2018

Itä-Suomen yliopisto (External organisation)

Seitamaa-Hakkarainen, P. (Expert)

28 Sept 2018

Tellervo Härkki

Seitamaa-Hakkarainen, P. (Supervisor) & Hakkarainen, K. P. J. (Co-supervisor)

14 Sept 2018

Katja Vilhusen vastaväittäjänä toimiminen, Itä-Suomen yliopisto

Seitamaa-Hakkarainen, P. (Opponent)

6 Sept 2018

Helena Tokkosen väitöskirjan esitarkastaja, Oulun yliopisto

Seitamaa-Hakkarainen, P. (Pre-examiner)

31 Aug 2018

Katja Vilhusen väitöskirjan esitarkastaja, Itä-Suomen yliopisto

Seitamaa-Hakkarainen, P. (Pre-examiner)

13 Apr 2018

Yasmin Kafai

Seitamaa-Hakkarainen, P. (Host)

6 Mar 2018 → 11 Mar 2018

Department of Education (Organisational unit)

Seitamaa-Hakkarainen, P. (Board member)

1 Jan 2018 → 31 Dec 2022

Koulun, kasvatuksen, yhteiskunnan ja kulttuurin tohtoriohjelman (SEDUCE)

Seitamaa-Hakkarainen, P. (Director)

2018 → 2022

Design, making and digital fabrication in basic education – Helsinki experiences

Seitamaa-Hakkarainen, P. (Speaker) & Hakkarainen, K. P. J. (Speaker)

12 Sept 2017 → 17 Sept 2017

Camilla Groth, Aalto University.

Seitamaa-Hakkarainen, P. (Supervisor)

16 Feb 2017

Anna Kouhia

Seitamaa-Hakkarainen, P. (Supervisor) & Kokko, S. (Co-supervisor)

12 Nov 2016

University of Southeast Norway

Seitamaa-Hakkarainen, P. (Visiting researcher)

1 Sept 2016 → 30 Sept 2016

Hanna Kuusisaari

Seitamaa-Hakkarainen, P. (Supervisor)
28 May 2016

University of Bari

Seitamaa-Hakkarainen, P. (Visiting researcher)
1 Apr 2016 → 30 Apr 2016

Väitöskirjan esitarkastaja

Seitamaa-Hakkarainen, P. (Pre-examiner)
19 Jan 2016

Tarja Kaarina Laamanen Generating and transforming representations in design ideation. Department of Teacher Education, University of Helsinki

Seitamaa-Hakkarainen, S. P. (Supervisor) & Hakkarainen, K. (Co-supervisor)
2016

SEDUCE tohtorihjelma

Seitamaa-Hakkarainen, P. (Director)
1 Aug 2015 → 31 Dec 2015

Väitöskirjan esitarkastaja

Seitamaa-Hakkarainen, P. (Pre-examiner)
30 Apr 2015

Asta Raami Aalto University

Seitamaa-Hakkarainen, P. (Supervisor)
13 Mar 2015

Åbo Academi (External organisation)

Seitamaa-Hakkarainen, P. (Expert)
15 Jan 2015

Kaiju Kangas

Seitamaa-Hakkarainen, P. (Supervisor) & Hakkarainen, K. (Co-supervisor)
29 Nov 2014

Hochschullehrerforum

Seitamaa-Hakkarainen, P. (Speaker: Keynote)
14 Nov 2014

Human-Computer Interaction (HCI) International conference

Seitamaa-Hakkarainen, P. (Speaker: Presenter)
22 Jun 2014 → 27 Jun 2014

DRS 2014: Design's Big Debates.

Seitamaa-Hakkarainen, P. (Speaker: Presenter)
16 Jun 2014 → 19 Jun 2014

SEDUCE tohtorihjelma

Seitamaa-Hakkarainen, P. (Director)
1 Jan 2014 → 31 Dec 2014

University of Helsinki (External organisation)

Seitamaa-Hakkarainen, P. (Board member)

1 Jan 2014 → 31 Dec 2014

International Journal of Design (Journal)

Seitamaa-Hakkarainen, P. (Reviewer)

2014

Social Science and Human Research Council of Canada (External organisation)

Seitamaa-Hakkarainen, P. (Assessment)

20 Dec 2013

Marjukka, Vuorisalo, Aalto University

Seitamaa-Hakkarainen, P. (Supervisor)

13 Dec 2013

väitöskirjan esitarkastus

Seitamaa-Hakkarainen, P. (Pre-examiner)

13 Dec 2013

Väitöskirja ohjaus Kristiina Soini-Salomaa

Seitamaa-Hakkarainen, P. (Supervisor)

29 Nov 2013

Aalto University (External organisation)

Seitamaa-Hakkarainen, P. (Chair)

15 Oct 2013 → 15 Sept 2014

Väitöskirjan esitarkastaja

Seitamaa-Hakkarainen, P. (Pre-examiner)

12 Oct 2013

SEDUCE tohtorihjelema

Seitamaa-Hakkarainen, P. (Assistant director)

1 Aug 2013 → ...

Vastaväittäjä

Seitamaa-Hakkarainen, P. (Opponent)

13 Dec 2012

väitöskirjan ohjaus Kaisa Hyrsky

Seitamaa-Hakkarainen, P. (Supervisor) & Lahti, H. (Co-supervisor)

16 Nov 2012

NordFo, Making. International conference on materiality and knowledge

Seitamaa-Hakkarainen, P. (Speaker: Keynote)

24 Sept 2012 → 27 Sept 2012

10th International Conference of the Learning Sciences (ICLS 2012)

Seitamaa-Hakkarainen, P. (Attendee)

3 Jul 2012 → 6 Jul 2012

Itä-Suomen yliopisto (External organisation)

Seitamaa-Hakkarainen, P. (Expert)
15 Jun 2012

Opetushallitus (External organisation)

Seitamaa-Hakkarainen, P. (Expert member)
2012 → 2014

Aalto University (External organisation)

Seitamaa-Hakkarainen, P. (Expert member)
Nov 2011

The 9th Conference of Computer-Supported Collaborative Learning (CSCL), July 4-8, 2011, University of Hongkong

Seitamaa-Hakkarainen, P. (Attendee)
1 Jul 2011 → 10 Jul 2011

Aalto Yliopisto (External organisation)

Seitamaa-Hakkarainen, P. (Member)
15 Mar 2011 → 15 Mar 2012

Kazunami MINE Akiko SUZUKI

Seitamaa-Hakkarainen, P. (Host)
28 Feb 2011 → 2 Mar 2011

Takano

Seitamaa-Hakkarainen, P. (Host)
28 Feb 2011

Väitöskirjan ohjaus sari Kivilehto

Seitamaa-Hakkarainen, P. (Supervisor)
2011

University of Jyväskylä (External organisation)

Seitamaa-Hakkarainen, P. (Expert)
23 Nov 2010

Karen Flemming

Seitamaa-Hakkarainen, P. (Host)
18 Nov 2010

Therera Latiefier

Seitamaa-Hakkarainen, P. (Host)
23 Aug 2010 → 26 Aug 2010

Seitamaa-Hakkarainen, P., Kangas, K & Hakkarainen, Kai (2010). .Infusing Design Expertise in Elementary Students' Collaborative Design Process. A paper presented Knowledge Building Summer Institute. 3 -6.8. 2010. Toronto, Canada.

Seitamaa-Hakkarainen, P. (Speaker: Presenter)
3 Aug 2010 → 6 Aug 2010

Institute for Knowledge Innovation and Technology IKIT, University of Toronto.

Seitamaa-Hakkarainen, P. (Visiting researcher)
25 Jul 2010 → 8 Aug 2010

Chair of the Scientific Committee of Nordic FISCAR 2010 Conference, 23-25.5.2010

Seitamaa-Hakkarainen, P. (Chair)

23 May 2010 → 26 May 2010

Forskning i slöjdpedagogik och slöjdvvetenskap. (Journal)

Seitamaa-Hakkarainen, P. (Editor in chief)

2010 → ...

Helsingin yliopisto (External organisation)

Seitamaa-Hakkarainen, P. (Member)

2010 → ...

Väitöskirjan ohjaus Leena Vartiainen

Seitamaa-Hakkarainen, P. (Supervisor)

2010

Väitöskirjan ohjaus Teemu Leinonen

Seitamaa-Hakkarainen, P. (Supervisor)

2010

Nobukazu Matsuura

Seitamaa-Hakkarainen, P. (Host)

16 Sept 2009

Takaya Kohyama Katsunami Mine

Seitamaa-Hakkarainen, P. (Host)

4 Sept 2009

Marjut Viilo and Pirita Seitamaa-Hakkarainen (2009) Practices of Teacher Guidance . A paper presented Knowledge Building Summer. Aug 29- Sep 9, 2009, Mallorca, Spain.

Seitamaa-Hakkarainen, P. (Attendee)

29 Aug 2009 → 9 Sept 2009

Katsuhiko Yamazumi

Seitamaa-Hakkarainen, P. (Host)

12 Mar 2009 → 13 Mar 2009

Hiroshima University

Seitamaa-Hakkarainen, P. (Visiting researcher)

15 Feb 2009 → 21 Feb 2009

Kansai University, Osaka, Japan.

Seitamaa-Hakkarainen, P. (Visiting researcher)

10 Dec 2008

Seitamaa-Hakkarainen, P. (2008) . Collaborative Knowledge Practices in Technology Mediated Learning. The 5th International Symposium of Activity Theory, 6.12.2008. Kansai University Tokyo Center, Tokyo, Japan.

Seitamaa-Hakkarainen, P. (Speaker: Keynote)

6 Dec 2008 → 11 Dec 2008

University of Turku (External organisation)

Seitamaa-Hakkarainen, P. (Expert)

10 Nov 2008

Seitamaa-Hakkarainen, P. (2008) .Craft Design Processes in Virtual Design Studio. Invited Keynote address in International Conference of Crafticulation & Education 24-26.9.2008, Department of Home Economics and Craft Science, University of Helsinki.

Seitamaa-Hakkarainen, P. (Speaker: Keynote)
24 Sept 2008 → 26 Sept 2008

Seitamaa-Hakkarainen, P. (2008) Architecture Project: City Plan, Home and Users – Children as Architects. A paper presented in International Society for Cultural and Activity Research ISCAR –conference 8-12.9. 2008. San Diego, USA.
Seitamaa-Hakkarainen, P. (Speaker: Presenter)
8 Sept 2008 → 12 Sept 2008

Seitamaa-Hakkarainen, P. (2008) Learning by Collaborative Designing in Technology Enhanced Learning. Keynote address in Congrso Nacional Informatica Educativa. Barranquilla 2-11. 7.2008.
Seitamaa-Hakkarainen, P. (Speaker: Keynote)
2 Jul 2008 → 11 Jul 2008

Väitöskirjan ohjaus Henna Lahti
Seitamaa-Hakkarainen, P. (Supervisor)
2008

Väitöskirjan ohjaus Minna Kaipainen
Seitamaa-Hakkarainen, P. (Supervisor)
2008

Seitamaa-Hakkarainen, P., Kangas, K. & Hakkarainen, K. (2007). The Artifact Project - History, Science and Design Inquiry in Technology Enhanced Learning At Elementary Level. A paper presented Summer Institute Conference. 7-11.8. 2007. Toronto, Canada.
Seitamaa-Hakkarainen, P. (Speaker: Presenter)
2 Aug 2007 → 11 Aug 2007

Design Studies (Journal)
Seitamaa-Hakkarainen, P. (Reviewer)
2007

Seitamaa-Hakkarainen, P. (2006). CoDes- Facilitating Social Creativity through Collaborative Designing. Invited Keynote address on the Symposium of Scientific Communications. The Faculty of Social and Human Sciences University of Oradea, 26th – 27th of October 2006, Oradea, Romania.
Seitamaa-Hakkarainen, P. (Speaker: Keynote)
26 Oct 2006 → 29 Oct 2006

Seitamaa-Hakkarainen, P., Iivonen, M., Kangas, K., Bollström-Huttunen, M., & Hakkarainen, K. (2006) Architecture Project: City plan, home and users – Children as Architects. A paper presented Summer Institute Conference. 7 -11.8. 2006. Toronto, Canada.
Seitamaa-Hakkarainen, P. (Speaker: Presenter)
2 Aug 2006 → 11 Aug 2006

University of Tampere (External organisation)
Seitamaa-Hakkarainen, P. (Expert)
27 Apr 2006

Vastaväittäjä
Seitamaa-Hakkarainen, P. (Opponent)
16 Dec 2005

Seitamaa-Hakkarainen, P., Hakkarainen, K., Bollström-Huttunen, M. & Engeström, R (2005). Practices of Teacher Guidance in the Computer Supported Collaborative Learning. A paper presented in International Society for Cultural and Activity Research ISCAR –conference 20-24.9. 2005. Sevilla, Spain.
Seitamaa-Hakkarainen, P. (Speaker: Presenter)
20 Sept 2005 → 24 Sept 2005

Seitamaa-Hakkarainen, P, Savolainen, M, Kohonen, K & Hakkarainen, K. (2005). Progressive Inquiry Cycles in a Collaborative Lamp Design Process. A paper presented Summer Institute Conference. 9 -12.8. 2005. Toronto, Canada.
Seitamaa-Hakkarainen, P. (Speaker: Presenter)
9 Aug 2005 → 12 Aug 2005

Esitarkastus

Seitamaa-Hakkarainen, P. (Pre-examiner)
2005

Qwerty (Journal)

Seitamaa-Hakkarainen, P. (Member of editorial board)
2005 → ...

Research School of Multidisciplinary Learning Environments, OPMON (External organisation)

Seitamaa-Hakkarainen, P. (Board member)
2005 → 2012

Vastaväittäjä

Seitamaa-Hakkarainen, P. (Opponent)
11 Jun 2003

Väitöskirjan ohjaus Tarja Kröger

Seitamaa-Hakkarainen, P. (Supervisor)
2003

Social Science and Human Research Council of Canada (External organisation)

Seitamaa-Hakkarainen, P. (Assessment)
15 Oct 2002

Väitöskirjan ohjaus Anna-Maija Ihatsu

Seitamaa-Hakkarainen, P. (Supervisor)
2002

Väitöskirjan ohjaus Lindfors Eila

Seitamaa-Hakkarainen, P. (Supervisor)
2002