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## Publications

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

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### **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 slöjdvetenskap. (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