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Qualifications

Doctoral degree, Engineering and Technology, Helsinki University of Technology
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Licentiate degree, Engineering and Technology, Helsinki University of Technology
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Master's degree, Engineering and Technology, Helsinki University of Technology
Award Date: 3 Jun 1997

Employment

Senior University Lecturer

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Aalto University
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1 Aug 2015 → present

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Aalto University
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Aalto University
19 Oct 2020 → present

Docentship

University of Turku
Turku, Finland
1 Jan 2012 → present

Research outputs

Students Struggle with Concepts in Dijkstra's Algorithm

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Empirical Evaluation of a Differentiated Assessment of Data Structures: The Role of Prerequisite Skills

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Differentiated Assessments for Advanced Courses that Reveal Issues with Prerequisite Skills: A Design Investigation

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Automatic Recognition of Misconceptions in Visual Algorithm Simulation Exercises

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The Effect of Achievement Badges on Students' Behavior: An Empirical Study in a University-Level Computer Science Course

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FUN: Finland US Network for the Study of Engagement and Learning in Games

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A comprehensive taxonomy of algorithm animation languages

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Algorithm Visualization System for Teaching Spatial Data Algorithms

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Experiences in automatic assessment on mass courses and issues for designing virtual courses

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Matrix - Concept Animation and Algorithm Simulation System

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Algorithm Simulation with Automatic Assessment

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Activities

Computer Science Education (Journal)

Korhonen, A. (Editorial board member)
2024 → 2025

Annual Conference on Innovation & Technology in Computer Science Education

Korhonen, A. (Member)
2023 → 2024

Journal of Systems and Software (Journal)

Korhonen, A. (Editorial board member)
2023 → 2024

Intelligent Tutoring for Algorithm Visualization Exercises

Tilanterä, A. (Speaker) & Korhonen, A. (Speaker)
18 Nov 2021

New Acos Content Types

Korhonen, A. (Speaker), Mariani, G. (Speaker), Sormunen, P. (Speaker), Rybicki, J.-M. (Speaker), Lukkarinen, A. (Speaker), Haaranen, L. (Speaker), Tilanterä, A. (Speaker) & Sorva, J. (Speaker)
15 Mar 2021 → 16 Mar 2021

ACM Conference on International Computing Education Research
Korhonen, A. (Member)
2021 → 2023

ACM Transactions on Computing Education (Journal)
Korhonen, A. (Reviewer)
2021 → 2025

ACM Transactions on Computing Education (Journal)
Korhonen, A. (Editorial board member)
2021 → 2022

Informatics in Education (Journal)
Korhonen, A. (Reviewer)
2021

Koli Calling - International Conference on Computing Education Research
Korhonen, A. (Member)
2021 → 2023

Koli Calling - International Conference on Computing Education Research (Event)
Korhonen, A. (Reviewer)
2021

University of Oslo (Publisher)
Korhonen, A. (Editorial board member)
2021 → 2022

Annual Conference on Innovation and Technology in Computer Science Education
Korhonen, A. (Participant)
14 Jun 2020 → 17 Jun 2020

IEEE Transactions on Learning Technologies (Journal)
Korhonen, A. (Reviewer)
2020 → 2022

ACM Conference on International Computing Education Research
Korhonen, A. (Participant)
12 Aug 2019 → 14 Aug 2019

Annual Conference on Innovation and Technology in Computer Science Education
Korhonen, A. (Participant)
15 Jul 2019 → 17 Jul 2019

International GamiFIN Conference (Event)
Korhonen, A. (Reviewer)
8 Apr 2019 → 10 Apr 2019

Koli Calling - International Conference on Computing Education Research
Korhonen, A. (Participant)
22 Nov 2018 → 25 Nov 2018

ACM Conference on International Computing Education Research
Korhonen, A. (Chair)
12 Aug 2018 → 16 Aug 2018

Annual Conference on Innovation and Technology in Computer Science Education

Korhonen, A. (Participant)
30 Jun 2018 → 4 Jul 2018

ACM Technical Symposium on Computer Science Education

Korhonen, A. (Participant)
21 Feb 2018 → 24 Feb 2018

ANNUAL CONFERENCE ON INNOVATION AND TECHNOLOGY IN COMPUTER SCIENCE EDUCATION (Event)

Korhonen, A. (Member)
2018 → 2021

Computer Science Education (Journal)

Korhonen, A. (Reviewer)
2018 → 2019

International Computing Education Research Conference

Korhonen, A. (Member)
18 Aug 2017 → 20 Aug 2017

Annual Conference on Innovation and Technology in Computer Science Education

Korhonen, A. (Member)
1 Jul 2017 → 5 Jul 2017

ACM Conference on International Computing Education Research (Event)

Korhonen, A. (Reviewer)
2017 → ...

CICERO SIG: Educational Data Mining and Learning Analytics in Digital Learning

Korhonen, A. (Speaker)
9 Dec 2016

ACM Transactions on Computing Education (Journal)

Korhonen, A. (Editorial board member)
1 Jan 2016 → 31 Dec 2018

ACM Inroads (Journal)

Korhonen, A. (Reviewer)
2016

ACM Transactions on Applied Perception (Journal)

Korhonen, A. (Reviewer)
2016 → 2017

ACM Transactions on Computing Education (Journal)

Korhonen, A. (Reviewer)
2016 → ...

ACM Transactions on Computing Education (Journal)

Korhonen, A. (Guest editor)
2016 → 2018

Annual Conference of the European Society for Engineering Education
Korhonen, A. (Organiser)
2016

Annual Conference of the European Society for Engineering Education
Korhonen, A. (Member)
2016

International Journal of Engineering Education (Journal)
Korhonen, A. (Reviewer)
2016

Media Education Conference
Korhonen, A. (Member)
Dec 2015

Annual Conference on Innovation and Technology in Computer Science Education
Korhonen, A. (Member)
6 Jul 2015 → 8 Jul 2015

ACM Transactions on Computing Education (Journal)
Korhonen, A. (Editorial board member)
2015

IEEE (External organisation)
Korhonen, A. (Chair)
2015

Sanna Heikkinen (Aalto University) August 2014
Korhonen, A. (Reviewer)
Aug 2014

Anne-Kathrin Peters (Uppsala University) Sweden
Korhonen, A. (Opponent)
25 Apr 2014

Stanford University
Korhonen, A. (Visiting researcher)
2014

University (External organisation)
Korhonen, A. (Chair)
2014

Interactive Technology in Education Conference
Korhonen, A. (Member)
2013 → 2021

Stanford University
Korhonen, A. (Visiting researcher)
2013

University (External organisation)
Korhonen, A. (Chair)
2013

University (External organisation)

Korhonen, A. (Chair)
2013

University (External organisation)

Korhonen, A. (Chair)
2012

Virginia Tech

Korhonen, A. (Visiting researcher)
2012

Antonio Pérez Carrasco

Korhonen, A. (Host)
1 Jan 2011

Cliff Shaffer

Korhonen, A. (Host)
1 Jan 2011

Tietojenkäsittelytiede (Journal)

Korhonen, A. (Editorial board member)
2011

Universidad Rey Juan Carlos

Korhonen, A. (Visiting researcher)
2011

University (External organisation)

Korhonen, A. (Chair)
2011

Tietojenkäsittelytiede (Journal)

Korhonen, A. (Editorial board member)
2010

University (External organisation)

Korhonen, A. (Chair)
2010

IEEE Transactions on Learning Technologies (Journal)

Korhonen, A. (Reviewer)
1 Jan 2009 → ...

ACM Transactions on Computing Education (Journal)

Korhonen, A. (Reviewer)
2009 → ...

Foreign Visitor

Korhonen, A. (Host)
2009

Tietojenkäsittelytiede (Journal)
Korhonen, A. (Editorial board member)
2009

University (External organisation)
Korhonen, A. (Chair)
2009

Tietojenkäsittelytiede (Journal)
Korhonen, A. (Editorial board member)
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Korhonen, A. (Editor-in-chief)
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Foreign Organisation
Korhonen, A. (Visiting researcher)
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Korhonen, A. (Editorial board member)
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University (External organisation)

Korhonen, A. (Chair)
2002

University (External organisation)

Korhonen, A. (Chair)
2001

University (External organisation)

Korhonen, A. (Chair)
1999

Projects