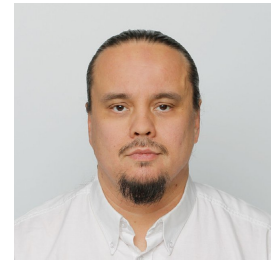


Ari Korhonen
Senior University Lecturer
Department of Computer Science
Computer Science Lecturers
Computer Science - Computing education research and educational technology
(CER) - Research area
Lecturer Korhonen Ari group
Computer Science RA - Computing Education Research
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Qualifications

Doctoral degree, Engineering and Technology, Helsinki University of Technology
Award Date: 15 Dec 2003

Licentiate degree, Engineering and Technology, Helsinki University of Technology
Award Date: 12 Jun 2000

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

Employment

Senior University Lecturer

Senior University Lecturer
Department of Computer Science
Aalto University
Finland
1 Aug 2015 → present

Senior University Lecturer

Senior University Lecturer
Computer Science Lecturers
Aalto University
Finland
1 Jan 2021 → present

Senior University Lecturer

Senior University Lecturer
Computer Science - Computing education research and educational technology (CER) - Research area
Aalto University
Finland
1 Dec 2020 → present

Senior University Lecturer

Senior University Lecturer
Lecturer Korhonen Ari group
Aalto University
19 Oct 2020 → present

Senior University Lecturer

Senior University Lecturer
Computer Science RA - Computing Education Research
Aalto University
1 Jan 2026 → present

Docentship

University of Turku

Turku, Finland

1 Jan 2012 → present

Research outputs

New Acos Content Types

Korhonen, A., Mariani, G., Sormunen, P., Rybicki, J.-M., Lukkarinen, A., Haaranen, L., Tilanterä, A. & Sorva, J., 15 Mar 2021, *Seventh SPLICE Workshop at SIGCSE 2021 "CS Education Infrastructure for All III: From Ideas to Practice"*. 5 p.

Digital storytelling and group work: Integrating the narrative approach into a higher education computer science course

Korhonen, A. & Vivitsou, M., 2 Jul 2019, *ITiCSE 2019 - Proceedings of the 2019 ACM Conference on Innovation and Technology in Computer Science Education*. ACM, p. 140-146 7 p. (Annual Conference on Innovation and Technology in Computer Science Education, ITiCSE).

Second Special Issue on Learning Analytics in Computing Education

Korhonen, A. & Grover, S., 1 Oct 2018, In: *ACM Transactions on Computing Education*. 18, 4, p. 1-2 16.

Second Special Issue on Learning Analyticsin Computing Education

Korhonen, A. & Grover, S., 2018, In: *ACM Transactions on Computing Education*. 18, 4

Learning Analytics

Korhonen, A. & Multisilta, J., 2016, *New Ways to Teach and Learn in China and Finland: Crossing Boundaries with Technology*. Niemi, H. & Jia, J. (eds.). Frankfurt am Main : Peter Lang, p. 301-310 10 p.

Automatic Recognition of Misconceptions in Visual Algorithm Simulation Exercises

Korhonen, A., Seppälä, O. & Sorva, J., 2015, *Frontiers in Education Conference, El Paso, Texas, USA, October 21-24, 2015*. IEEE, p. 1-5

Requirements and design strategies for open source interactive computer science eBooks

Korhonen, A., Naps, T., Boisvert, C., Crescenzi, P., Karavirta, V., Mannila, L., Miller, B., Morrison, B., Rodger, S. H., Ross, R. & Shaffer, C. A., 2013, *Proceedings of the ITiCSE Working Group Reports Conference on Innovation and Technology in Computer Science Education-working Group Reports*. Barnes, D. J. (ed.). New York, NY, USA: ACM, p. 53-72

TRAKLA2

Korhonen, A., Helminen, J., Karavirta, V. & Seppälä, O., 2010, *9th Koli Calling International Conference on Computing Education Research, Koli, Finland, October 29 November 1, 2009*. Pears, A. & Schulte, C. (eds.). Uppsala University: University of Joensuu, p. 43-46

Applications of Visual Algorithm Simulation

Korhonen, A., 2009, *Handbook of Research on Discrete Event Simulation Environments: Technologies and Applications*. Abu-Taieh, E. (ed.). Hershey, PA, USA: IGI Global, p. 234-251

HOW DOES ALGORITHM VISUALIZATION AFFECT COLLABORATION?Video Analysis of Engagement and Discussions

Korhonen, A., Laakso, M.-J. & Myller, N., 2009, *WEBIST 2009, 23-26 March, Lisboa, Portugal*. Filipe, J. & Cordeiro, J. (eds.). Lisbon, Portugal: INSTICC - Institute for Systems and Technologies of Information, Control and Communication, p. 479-488

Tietojenkäsittelytieteiden opetuksen kehittämisseminaari

Korhonen, A., 2008, In: *Tietojenkäsittelytiede*. 28, p. 66-75

Platform for Elaboration of Search Results

Korhonen, A., Litola, J. & Tarhio, J., 2007, *Web Information Systems and Technologies, March 3-6, Barcelona, Spain*. Joaquim Filipe, J. C. (ed.). Portugal: INSTICC Press, p. 263-269

Visuaalinen algoritmisimulaatio ja sen sovelluksia

Korhonen, A., 2005, In: *Tietojenkäsittelytiede*. 23, p. 42-59

Visuaalinen algoritmisimulaatio tietotekniikan opetuksessa

Korhonen, A., Ihantola, P. & Malmi, L., 2005, *Tekniikan opetuksen symposium 20.-21.10.2005, Espoo*. Yanar, A. (ed.). Espoo: Teknillinen korkeakoulu, p. 37

Kolin Kolistelut - Koli Calling - Proceedings of the Fourth Finnish/Baltic Sea Conference on Computer Science Education

Korhonen, A. & Malmi, L., 2004, Espoo, p. 170, (Helsinki University of Technology, Department of Computer Science and Engineering Laboratory of Information Processing Science; no. TKO-A42/04).

Matrix A Framework for Interactive Software Visualization

Korhonen, A., Malmi, L., Silvasti, P., Karavirta, V., Lönnberg, J., Nikander, J., Stålnacke, K. & Ihantola, P., 2004, Espoo: Teknillinen korkeakoulu, p. 72, (Laboratory of Information Processing Science B; no. TKO-B 154/04).

Proceedings of the Fourth Finnish/Baltic Sea Conference on Computer Science Education

Korhonen, A. & Malmi, L., 2004, Espoo: Helsinki University of Technology. 170 p.

Proceedings of the Third Program Visualization Workshop

Korhonen, A., 2004, Warwick, UK: University of Warwick. 156 p. (Department of Computer Science, Research Report ; no. 407)

Taxonomy of Visual Algorithm Simulation Exercises

Korhonen, A. & Malmi, L., 2004, *Program Visualization Workshop, 1-2 July 2004, Warwick, UK*. Korhonen, A. (ed.). Warwick: University of Warwick, p. 118-125

Interaction and Feedback in Automatically Assessed Algorithm Simulation Exercises

Korhonen, A., Malmi, L., Nikander, J. & Tenhunen, P., 2003, In: *Journal of Information Technology Education*. 2, p. 241-255

Internet-based Training of Data Structures and Algorithms at University Education

Korhonen, A. & Malmi, L., 2003, *Collaboration and Learning in Virtual Environments*. Bopry, J. & Eteläpelto, A. (eds.). Jyväskylä, Finland: University of Jyväskylä, p. 137-146

Tietojenkäsittelytieteen päivät 2003

Korhonen, A. & Tarhio, J., 2003, Espoo: Tietojenkäsittelytieteen Seura. 69 p. (Teknillinen korkeakoulu. Tietotekniikan osasto. Tietojenkäsittelyopin laboratorio. A.; no. 39)

TRAKLA2

Korhonen, A., Malmi, L., Silvasti, P., Nikander, J., Tenhunen, P., Mård, P., Salonen, H. & Karavirta, V., 2003

TRAKLA2: a Framework for Automatically Assessed Visual Algorithm Simulation Exercises

Korhonen, A., Malmi, L. & Silvasti, P., 2003, *Kolin Kolistelut - Koli Calling, Oct. 3-5, 2003 in Koli Finland*. Kurhila, J. (ed.). Helsinki: University of Helsinki, p. 48-56

Algorithm Simulation - A Novel Way to Specify Algorithm Animations

Korhonen, A., Malmi, L., Nikander, J. & Silvasti, P., 2002, *Second Program Visualization Workshop, June 27-28, HornstrupCentret, Denmark*. Ben-Ari, M. & Kölling, M. (eds.). University of Southern Denmark, p. 6

Automatic Feedback and Algorithm Simulation

Korhonen, A., Malmi, L., Nikander, J. & Tenhunen, P., 2002, *Proceedings of the First Annual Finnish/Baltic Sea Conference on Computer Science Education*. Joensuu, Finland, p. 20-26

Does It Make A Difference If the Students Exercise on the Web Or in the Class Room?

Korhonen, A., Malmi, L. & Scheinin, P., 2002, *Conference on Innovation and Technology in Computer Science Education, June 24-26, Aarhus, Denmark*. ACM, p. 121-124

Electronic course material on Data Structures and Algorithms

Korhonen, A., Malmi, L., Mård, P., Salonen, H. & Silvasti, P., 2002, *Proceedings of the Second Annual Finnish/Baltic Sea Conference on Computer Science Education*. Kuittinen, M. (ed.). Joensuu: University of Joensuu, p. 16-20

Matrix - Concept Animation and Algorithm Simulation System

Korhonen, A. & Malmi, L., 2002, *Proceedings of the Working Conference on Advanced Visual Interfaces*. De Marsico, M., Levialdi, S. & Panizzi, E. (eds.). Trento, Italy: ACM, p. 109-114

Understanding Algorithms by Means of Visualized Path Testing

Korhonen, A., Sutinen, E. & Tarhio, J., 2002, *Software Visualization. International Seminar, Dagstuhl Castle, Germany, May 20-25, 2001. Revised Papers*. Diehl, S. (ed.). Germany, p. 256-268

Matrix - Concept animation and algorithm simulation system

Korhonen, A., Malmi, L. & Saikkonen, R., 1 Dec 2001. 1 p.

Design Pattern for Algorithm Animation and Simulation

Korhonen, A., Malmi, L. & Saikkonen, R., 2001, *The First International Program Visualization Workshop, Porvoo, Finland, 2000*. Sutinen, E. (ed.). Joensuu: University of Joensuu, p. 89-100

Matrix - Algorithm Simulation and Animation Framework

Korhonen, A., Nikander, J., Saikkonen, R. & Tenhunen, P., 2001

Algorithm Simulation with Automatic Assessment

Korhonen, A. & Malmi, L., 2000, *ITICSE 2000: PROCEEDINGS OF THE 5TH ANNUAL SIGCSE/SIGCUE CONFERENCE ON INNOVATION AND TECHNOLOGY IN COMPUTER SCIENCE EDUCATION*. Joyce, D. (ed.). ACM, p. 160-163 4 p. (SIGCSE BULLETIN : A QUARTERLY PUBLICATION OF THE SPECIAL INTEREST GROUP ON COMPUTER SCIENCE EDUCATION; vol. 32, no. 3).

Activities

Computer Science Education (Journal)

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

Annual Conference on Innovation and 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

Tilanderä, 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)
2008

University (External organisation)

Korhonen, A. (Chair)
2008

Foreign Visitor

Korhonen, A. (Host)
2007

Tietojenkäsittelytiede (Journal)

Korhonen, A. (Editorial board member)
2007

Foreign Visitor

Korhonen, A. (Host)
2006

Tietojenkäsittelytiede (Journal)

Korhonen, A. (Editorial board member)
2006

Tietojenkäsittelytiede (Journal)

Korhonen, A. (Editor-in-chief)
2005

Tietojenkäsittelytiede (Journal)

Korhonen, A. (Editorial board member)
2005

Tietojenkäsittelytiede (Journal)

Korhonen, A. (Editor-in-chief)
2004

Tietojenkäsittelytiede (Journal)

Korhonen, A. (Editorial board member)
2004

Tietojenkäsittelytiede (Journal)

Korhonen, A. (Editorial board member)
2003

Foreign Organisation

Korhonen, A. (Visiting researcher)
2002

Tietojenkäsittelytiede (Journal)

Korhonen, A. (Editor-in-chief)
2002

Tietojenkäsittelytiede (Journal)

Korhonen, A. (Editorial board member)
2002

University (External organisation)

Korhonen, A. (Chair)
2002

University (External organisation)

Korhonen, A. (Chair)
2001

University (External organisation)

Korhonen, A. (Chair)
1999

Projects**FUN: Suomi - USA pelitutkimusverkoston hanke: Pelit oppimisympäristönä**

Malmi, L. (Principal investigator), Korhonen, A. (Project Member) & Hakulinen, L. (Project Member)
01/11/2012 → 31/10/2014