

Sami Laine
School common, SCI
Email: sami.k.laine@aalto.fi



Artistic and research interests

My academic interests cover widely topics of data management and socio-technical systems. For example, data and information quality, decision support systems, enterprise software systems, human-computer interaction, and workplace studies. From methodological point of view, my research approaches focus mainly to data management topics particularly from constructive and applied perspectives.

Research outputs

Improving Trustworthiness of AI Solutions: A Qualitative Approach to Support Ethically-Grounded AI Design

Vianello, A., Laine, S. & Tuomi, E., 2023, In: *International Journal of Human-Computer Interaction*. 39, 7, p. 1405-1422 18 p.

Competence Management System Design Principles: Action Design Research

Niemi, E. & Laine, S., 12 Dec 2016, *Proceedings of the International Conference on Information Systems*. Dublin, Ireland: Association for Information Systems, p. 1-18

Competence management as a dynamic capability: A strategic enterprise system for a knowledge-intensive project organization

Niemi, E. & Laine, S., 7 Mar 2016, *Proceedings of the 49th Annual Hawaii International Conference on System Sciences, HICSS 2016*. IEEE, Vol. 2016-March. p. 4252-4261 10 p. 7427714

Designing a Competence Management System 'Knome' for a Knowledge-Intensive Project Organization

Niemi, E. & Laine, S., 2016, *Tackling Society's Grand Challenges with Design Science: 11th International Conference, DESRIST 2016, St. John's, NL, Canada, May 23-25, 2016, Proceedings*. Parsons, J., Tuunanen, T., Venable, J., Donnellan, B., Helfert, M. & Kenneally, J. (eds.). Springer, p. 217-222 6 p. (Lecture Notes in Computer Science; vol. 9661).

Designing Information Governance with a Focus on Competence Management in a Knowledge-Intensive Project Organization

Niemi, E. & Laine, S., 2016, *21st International Conference on Information Quality (ICIQ 2016) : Proceedings of a meeting held 22-23 June 2016, Ciudad Real, Spain*. Curran Associates Inc., p. 1-12

Reference Model for Transparent Data Supply

Laine, S. & Lee, C., 24 Jul 2015, *Proceedings of the 20th International Conference on Information Quality, ICIQ 2015*. MIT Press, p. 135-149 15 p. (Proceedings of the International Conference on Information Quality).

Timestamp Accuracy in Healthcare Business Process Improvement

Laine, S., Soikkeli, J., Ruohonen, T. & Nieminen, M., 24 Jul 2015, *Proceedings of the 20th International Conference on Information Quality, ICIQ 2015*. MIT Press, p. 150-164 15 p.

Transparent Data Supply for Open Information Production Processes

Laine, S., Lee, C. & Nieminen, M., 2015, *23rd European Conference on Information Systems (ECIS), Münster, Germany, 26-29 May, 2015*. Becker, J., vom Brocke, J. & de Marco, M. (eds.). Association for Information Systems, p. Paper 115

Evolutionary Usability in Healthcare Information System Ecosystems

Laine, S., 2014, Helsinki, Finland.

User Interaction Metadata for Healthcare Information Systems

Laine, S. & Nieminen, M., 2014, New York, USA.

User Interaction Metadata For Improved Information Traceability

Laine, S., Nieminen, M. & Helenius, M., 7 Nov 2013, *The 18th International Conference on Information Quality (ICIQ 2013)*; Little Rock, Arkansas, USA; November 7-9, 2013. Boston: MIT Press

Improving Healthcare Data Quality with User Interaction Metadata

Laine, S., 2013, Milan, Italy.

Transparency of Hospital Productivity Benchmarking in Two Finnish Hospital Districts

Laine, S. & Niemi, E., 2013, *The 29th annual Patient Classification Systems International Conference (PCSI 2013)*; Helsinki, Finland; September 18-21, 2013. Helsinki, Finland: Patient Classification Systems International (PCSI)

APC-SIMULATOR: Demonstrating the Effects of Technical and Semantic Errors in the Accuracy of Hospital Reporting: Demonstrating the effects of technical and semantic errors in the accuracy of hospital reporting

Laine, S., 2012, *The 17th International Conference on Information Quality (ICIQ 2012)*, Paris, France, November 16-17, 2012.. Berti-Equille, L., Comyn-Wattiau, I. & Scannapieco, M. (eds.). Paris, France: MIT Press, p. 85-98 14 p.

Activities**MIT CDOIQ Symposium (Event)**

Laine, S. (Member)

20 Jul 2022 → 22 Jul 2022

DAMA Finland ry (External organisation)

Laine, S. (Member)

2022

MIT CDOIQ Symposium (Event)

Laine, S. (Chair)

20 Jul 2021 → 22 Jul 2021

MIT CDOIQ Symposium (Event)

Laine, S. (Member)

18 Aug 2020 → 20 Aug 2020

DAMA Finland ry (External organisation)

Laine, S. (Chair)

2018 → 2021

Aalto University (Organisational unit)

Laine, S. (Member)

1 Jan 2017 → 31 Dec 2017

International Conference on Information Quality

Laine, S. (Member)

22 Jun 2016 → 23 Jun 2016

Aalto University (Organisational unit)

Laine, S. (Member)

1 Jan 2016 → 31 Dec 2016

IEEE International Symposium on Computer-Based Medical Systems

Laine, S. (Member)

22 Jun 2015 → 25 Jun 2015

Aalto University (Organisational unit)

Laine, S. (Member)

1 Jan 2015 → 31 Dec 2015

DAMA Finland ry (External organisation)

Laine, S. (Member)

2014 → 2017

The 6th Nordic Casemix Conference

Laine, S. (Speaker)

2014

IEEE International Symposium on Computer-Based Medical Systems

Laine, S. (Member)

2013

Prizes**Best paper award: "Transparency of Hospital Productivity Benchmarking in Two Finnish Hospital Districts"**

Laine, S. (Recipient) & Niemi, E. (Recipient), Sept 2013

Nominee for 'AI Ethics Professional of the Year'

Laine, S. (Recipient), Nov 2022

Quality Foundation Grant

Laine, S. (Recipient), Mar 2015

Projects**Qualidat - Laadukkaalla tiedolla oikeisiin päätöksiin**

Nieminen, M. (Principal investigator), Runonen, M. (Project Member), Borgman, J. (Project Member), Mahlamäki, K. (Project Member), Teräs, S. (Project Member), Laine, S. (Project Member) & Viitanen, J. (Project Member)

01/09/2012 → 31/12/2014