

CS Research Day 2022

CS building library: Posters

1. Poster: *Denoising MEG Sensor Noise with Deep CNNs*
Presenter: **Victoria Oberländer**, Department of Computer Science
2. Poster: *Compositional Generalization in Grounded Language Learning via Induced Model Sparsity*
Presenter: **Sam Spilsbury**, Department of Computer Science
3. Poster: *Improved Training of Physics-Informed Neural Networks with Model Ensembles*
Presenter: **Katsiaryna Haitsiukevich**, Department of Computer Science
4. Poster: *Hierarchical Imitation Learning with Vector Quantized Models*
Presenter: **Kalle Kujanpää**, Department of Computer Science
5. Poster: *Beyond Standard Performance Measures in Extreme Multi-label Classification*
Presenter: **Erik Schultheis**, Department of Computer Science
6. Poster: *Speeding-up One-vs-All Training for Extreme Classification via Smart Initialization*
Presenter: **Erik Schultheis**, Department of Computer Science
7. Poster: *Detecting Sequential Genre Change in Eighteenth-Century Texts*
Presenter: **Jinbin Zhang**, Department of Computer Science
8. Poster: *Vertex Connectivity in Polylogarithmic Max-Flows*
Presenter: **Sorrachai Yingchareonthawornchai**, Department of Computer Science
9. Poster: *Sparse Matrix Multiplication in the Low-Bandwidth Model*
Presenter: **Chetan Gupta**, Department of Computer Science
10. Poster: *Automated Rendering of DNA Strand Displacement Systems*
Presenter: **Pekka Orponen**, Department of Computer Science
11. Poster: *Algorithmic Design of 3D Wireframe RNA Polyhedra*
Presenter: **Antti Elonen**, Department of Computer Science
12. Poster: *Energy-based-models for Retrosynthesis and Reaction Prediction*
Presenter: **Najwa Laabid**, Department of Computer Science
13. Poster: *Visual Localization via Few-Shot Scene Region Classification*
Presenter: **Shuzhe Wang**, Department of Computer Science
14. Poster: *Approximate Bayesian Computation with Domain Expert in the Loop*
Presenter: **Ayush Bharti**, Department of Computer Science
15. Poster: *Non-separable Spatio-temporal Graph Kernels via SPDEs*
Presenter: **Alexander Nikitin**, Department of Computer Science

16. Poster: *Provably Expressive Temporal Graph Networks*
Presenter: **Amauri Souza**, Department of Computer Science
17. Poster: *Priorsense: Intuitive and Efficient Bayesian prior Sensitivity Analysis*
Presenter: **Noa Kallioinen**, Department of Computer Science
18. Poster: *HMC for Bayesian ODEs with Gaussian processes*
Presenter: **Niko Siccha**, Department of Computer Science
19. Poster: *Coupled HMM: Modeling the Dynamics of MRSA Colonization and It's Decolonization*
Presenter: **Onur Poyraz**, Department of Computer Science

Lobby area outside CS library: Service presentations

20. Interactive Poster: *Computer Science and Sustainable Development Goals*
Presenters: **Aija Kukkala, Samuli Ojala & Matti Ahlgren**, Department of Computer Science

21. Demo: *Aalto's Research Services*
Presenters: **Katri Seitsonen, Petri Kanninen, Charlotte Forsgård & Lucie Hradecká**, Research Services

22. Poster: *Aalto Scientific Computing Services for Research Support*
Presenter: **Richard Darst**, Department of Computer Science

Lecture room T5: Posters & Demos

23. Poster: *Patients' Experiences of Patient Portal and It's Usability*
Presenter: **Saija Simola**, Department of Computer Science
24. Poster: *Examining Motivation in Introductory Programming*
Presenter: **Hannu Pesonen**, Department of Computer Science
25. Poster: *Allocation of Compliance Responsibilities in the Artificial Intelligence Lifecycle*
Presenter: **Ana Paula Gonzalez Torres**, Department of Computer Science
26. Poster: *Trustworthy and Inclusive AI services in the Public Sector*
Presenter: **Karolina Drobotowicz**, Department of Computer Science
27. Poster: *An Approach to Computational Crisis Narrative Analysis*
Presenter: **Henna Paakki**, Department of Computer Science
28. Poster: *Language of Algorithms: Agency, Metaphors, and Deliberations in AI Discourses*
Presenter: **Kaisla Kajava**, Department of Computer Science
29. Poster: *Temporal and Spatial Variations of Country-scale Road Usage Patterns: a case of Finland*
Presenter: **Zhiren Huang**, Department of Computer Science
30. Poster: *Forward Reliability, Resilience, Robustness and Elasticity in Orchestrating Machine Learning Service across Edge-Cloud Environments*
Presenter: **Minh Tri Nguyen**, Department of Computer Science
31. Poster: *Restoration of Historical Music Recordings Using Deep Learning*
Presenter: **Eloi Moliner Juanpere**, Department of Signal Processing and Acoustics
32. Poster & Demo: *Developing an Automatic Speaking Assessment System for Second Language Learners'*
Presenters: **Mikko Kurimo, Yaroslav Getman & Ekaterina Voskoboynik**, Department of Signal Processing and Acoustics
33. Demo: *Understanding Game Theory as Distributed Computing*
Presenter: **Juho Hirvonen**, Department of Computer Science
34. Poster: *BookSampo – Finnish Fiction Literature on the Semantic Web*
Presenter: **Annastiina Ahola**, Department of Computer Science
35. Poster: *LawSampo - Finnish Legislation and Case Law on the Semantic Web*
Presenter: **Minna Tamper**, Department of Computer Science
36. Poster: *Manual Quality Control with Freesurfer 7.1: Key Problem Areas and Importance of Corrections*
Presenter: **Vesa Vahemaa**, Department of Computer Science

Lecture room T6: Short presentations

- 15:10 Title: *Modeling Epidemics*
Presenter: **Abbas K. Rizi**, Department of Computer Science
- 15:13 Title: *A New Tool for Early Solar Storm Warnings*
Presenter: **Andreas Korpi-Lagg**, Department of Computer Science
- 15:16 Title: *Estimating Alternative Splicing Events from Single Cell RNA-seq Data*
Presenter: **Lu Cheng**, Department of Computer Science
- 15:19 Title: *Automatic Speaking Assessment for Second Language Learners' Spontaneous Speech in Under-Resourced Languages*
Presenter: **Mikko Kurimo**, Department of Signal Processing and Acoustics
- 15:22 Title: *Civic Agency in AI: Democratizing Algorithmic Services in the City (CAAI)*
Presenter: **Nitin Sawhney**, Department of Computer Science
- 15:25 Title: *Allocation of Compliance Responsibilities in the Artificial Intelligence Lifecycle*
Presenter: **Ana Paula Gonzalez Torres**, Department of Computer Science
- 15:28 Title: *Social Processes of Algorithmic Transparency*
Presenter: **Antti Rannisto**, Department of Computer Science
- 15:31 Title: *Motif Discovery and Visualization*
Presenter: **Fu Chengbo**, Department of Computer Science
- 15:34 Title: *Non-separable Spatio-temporal Graph Kernels via SPDEs*
Presenter: **Alexander Nikitin**, Department of Computer Science
- 15:37 Title: *Decision Support in Bayesian Workflow*
Presenter: **Anna Elisabeth Riha**, Department of Computer Science
- 15:40 Title: *Speeding-up One-vs-All Training for Extreme Classification via Smart Initialization*
Presenter: **Erik Schultheis**, Department of Computer Science
- 15:43 Title: *Vertex Connectivity in Polylogarithmic Max-Flows*
Presenter: **Sorrachai Yingchareonthawornchai**, Department of Computer Science
- 15:46 Title: *ParliamentSampo – Finnish Parliament on the Semantic Web*
Presenter: **Eero Hyvönen**, Department of Computer Science
- 15:49 Title: *Loudspeaker Modeling with Neural Networks*
Presenter: **Teodors Kerimovs**, Aalto Acoustics Lab
- 15:52 Title: *Uniqueness and Safety in Eulerian Circuits*
Presenter: **Nidia Obscura Agosta**, Department of Computer Science
- 15:55 Title: *Constellations of Correspondence: Relational Study of Large and Small Networks of Epistolary Exchange in the Grand Duchy of Finland (CoCo)*
Presenter: **Mikko Koho**, Department of Computer Science