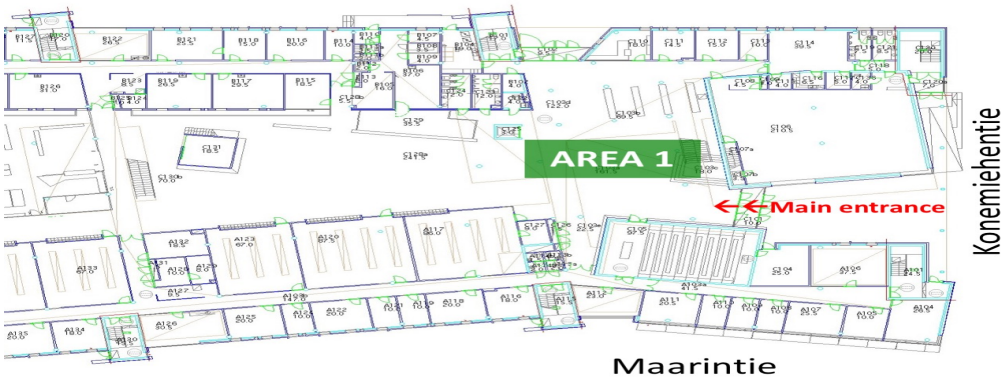
CS Research Day 11 Oct



1st floor

AREA 1: presentations 1-39

1. Poster: *Maximizing the Diversity of Exposure in a Social Network*
   Presenter: **Cigdem Aslay**, department of Computer Science
   Location: 1st floor lobby

2. Poster: *Liquid-Chromatography Retention Order Prediction for Metabolite Identification*
   Presenter: **Eric Bach**, department of Computer Science
   Location: 1st floor lobby

3. Poster: *Digital ethics in requirements engineering*
   Presenter: **Nagadivya Balasubramaniam**, department of Computer Science
   Location: 1st floor lobby

4. Poster: *Large-scale probabilistic non-linear matrix factorization for drug discovery*
   Presenter: **Paul Blomstedt**, department of Computer Science
   Location: 1st floor lobby

5. Poster: *Image-based progress estimation with deep Siamese networks*
   Presenter: **Petr Byshev**, department of Communications and Networking
   Location: 1st floor lobby

6. Poster: *Expert Knowledge Elicitation for Interactive Improvement of Machine Learning Models*
   Presenter: **Pedram Daee**, department of Computer Science
   Location: 1st floor lobby

7. Poster: *Augmented Self-presentation Supporting Collocated Social Interactions*
   Presenter: **Felix Epp**, department of Computer Science
   Location: 1st floor lobby

8. Poster: *Closed-Eyes Gaze Password*
   Presenter: **Rainhard Findling**, department of Communications and Networking
   Location: 1st floor lobby

9. Poster: *Pareto Smoothed Importance Sampling Particle Filter*
   Presenter: **Srikanth Gadicherla**, department of Computer Science
   Location: 1st floor lobby

10. Poster: *Few distance sets*
Presenter: **Mikhail Ganzhinov**, department of Communications and Networking
Location: 1st floor lobby

11. Poster: *Deep Learning Spectroscopy: Neural Networks for Molecular Excitation Spectra*
Presenter: **Kunal Ghosh**, department of Computer Science
Location: 1st floor lobby

12. Poster: *Differential Deep Gaussiab Processes*
Presenter: **Pashupati Rajaram Hegde**, department of Computer Science
Location: 1st floor lobby

13. Poster: *Predictive Maintenance of Photovoltaic Panels via Deep Learning*
Presenter: **Timo Huuhtanen**, department of Computer Science
Location: 1st floor lobby

14. Poster: *Foveated Graphics for cloud Gaming*
Presenter: **Gazi Illahi**, department of Computer Science
Location: 1st floor lobby

15. Poster: *Machine learning for predicting protein stability changes upon mutations*
Presenter: **Emmi Jokinen**, department of Computer Science
Location: 1st floor lobby

16. Poster: *Predictive modelling of anticancer efficacy of drug combinations using factorization machines*
Presenter: **Heli Julkunen**, department of Computer Science
Location: 1st floor lobby

17. Poster: *A Bayesian model of acquisition and clearance of bacterial colonization incorporating within-host variation*
Presenter: **Marko Järvenpää**, department of Computer Science
Location: 1st floor lobby

18. Poster: *Finding minimum energy paths using Gaussian process regression*
Presenter: **Olli-Pekka Koistinen**, department of Computer Science
Location: 1st floor lobby

19. Poster: *Cognitive Radar, Communication and Cyber-Physical Systems*
Presenter: **Visa Koivunen**, department of Signal Processing and Acoustics
Location: 1st floor lobby

20. Poster: *fMRI responses in the face perception network to real and computer-replicated faces*
Presenter: **Jari Kätsyri**, department of Computer Science
Location: 1st floor lobby

21. Poster: *B2B AI: Application of machine learning algorithms in B2B marketing domain*
Presenter: **Neda B. Marvasti**, department of Computer Science
Location: 1st floor lobby

22. Poster: *Tell me something my friends do not know: diversity maximization in social networks*
Presenter: **Antonis Matakos**, department of Computer Science
Location: 1st floor lobby

23. Poster: *Energy-aware QoE-traffic Optimization in Green Edge Adaptive Mobile Video Streaming*
Presenter: **Abbas Mehrabidavoodabadi**, department of Computer Science
Location: 1st floor lobby

24. Poster: *Optimization of a diffuser geometry using parametric modeling tools and finite-difference time-domain simulations*
Presenter: **Julie Meyer**, department of Computer Science
Location: 1st floor lobby

25. Poster: *Politics of interfaces - Interfaces of politics. Towards Political Human-Computer Interaction*
Presenter: **Matti Nelimarkka**, department of Computer Science
Location: 1st floor lobby

26. Poster: *snpEnrichR: An R package for analyzing enrichment of SNPs and their proxies in genomic regions*
Presenter: **Kari Nousiainen**, department of Computer Science
Location: 1st floor lobby

27. Poster: *Variable selection for Gaussian processes via sensitivity analysis*
Presenter: **Topi Paananen**, department of Computer Science
Location: 1st floor lobby

28. Poster: *Scaling agile*
Presenter: **Abheeshta Putta**, department of Computer Science
Location: 1st floor lobby

29. Poster: *Finding events in temporal networks: Segmentation meets densest-subgraph discovery*
Presenter: **Polina Rozenshtein**, department of Computer Science
Location: 1st floor lobby

30. Poster: *Semi-supervised learning for multi label classification*
Presenter: **Siddhartha Saxena**, department of Computer Science
Location: 1st floor lobby

31. Poster: *Harmonizable mixture kernels with variational Fourier features*
Presenter: **Zheyang Shen**, department of Computer Science
Location: 1st floor lobby

32. Poster: *Qualifying drug dosing regimens in pediatrics using Gaussian Processes*
Presenter: **Eero Siivola**, department of Computer Science
Location: 1st floor lobby

33. Poster: *Deep neural networks in scene graph generation for perception of visual multimedia semantics*
Presenter: **Mats Sjöberg**, department of Computer Science
Location: 1st floor lobby

34. Poster: *Interactive machine learning for exploring scholarly data*
Presenter: **Jonathan Strahl**, department of Computer Science
Location: 1st floor lobby

35. Poster: *Using queries of counterfactual outcomes to improve decision-making*
Presenter: **Iiris Sundin**, department of Computer Science
Location: 1st floor lobby

36. Poster: *An R-package for nonparametric modeling and covariate selection for longitudinal data*
Presenter: **Juho Timonen**, department of Computer Science
Location: 1st floor lobby

37. Poster: *Sparse Non-Linear CCA through Hilbert-Schmidt Independence Criterion*
Presenter: **Viivi Uurtio**, department of Computer Science
Location: 1st floor lobby

38. Poster: *Stan probabilistic programming framework*
Presenter: **Aki Vehtari**, department of Computer Science
Location: 1st floor lobby

39. Poster: *Learning Ordinary Differential Equations Using Gaussian Processes*
Presenter: **Cagatay Yildiz**, department of Computer Science
Location: 1st floor lobby

2nd floor

AREA 2: presentations 40-43

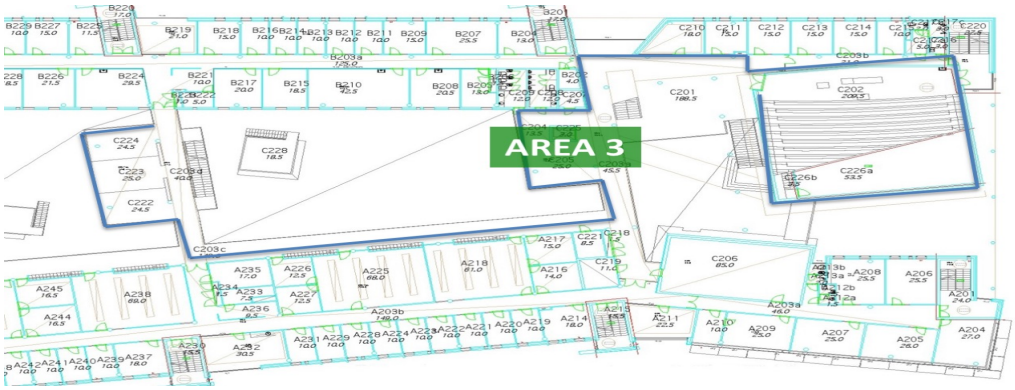
SERVICES

40. Demo: *Triton and Science-IT*
"Science-IT provides support for research scientific computing and data at Aalto, including the Triton cluster and software on your workstations. We are in our next round of hardware procurement, so come tell us what you need."
Presenter: **Richard Darst**, department of Computer Science
Location: 2nd floor lobby (T1)

41. Demo: *Main funding instruments for project funding*
"Do you have brilliant research ideas but don't have the money to make them happen? Visit Research and Innovation Services who help you find funding opportunities and write competitive applications."
Presenter: **Petri Kanninen**, Research and Innovation Services
Location: 2nd floor lobby (T1)

42. Demo & poster: *IT Services for Research, focus on research data management*
"IT Services provides the basic IT infrastructure of the university, such as wifi, version.aalto.fi, and remote desktops. Come talk to us to give feedback and complains and we'll use it to improve our services in the future. See our demo of the new virtual desktop service vdi.aalto.fi.”
Presenter: **Ilari Lähteenmäki**, IT Services
Location: 2nd floor lobby (T1)

43. Roll-up: *Presentation open science and ACRIS RIS-U services*
“RIS’s Open Science and ACRIS team provides support with, e.g., the ACRIS research information system and the research.aalto.fi portal, open access publishing and data publishing related matters. Come discuss these timely topics with us as your input would be much appreciated!”
Presenter: **Antti Rousi**, Research and Innovation Services
Location: 2nd floor lobby (T1)



2nd floor

AREA 3: presentations 44-50

44. Demo: *Suomea+ Fun Finnish Learning Everywhere (Pilot)*
    Presenter: **Alaa Al Barazi**, department of Computer Science
    Location: 2nd floor lobby

45. Poster: *Towards an Analysis of Program Complexity - From a Cognitive Perspective*
    Presenter: **Rodrigo Duran**, department of Computer Science
    Location: 2nd floor lobby

46. Poster: *All You Need is "Love": Evading Hate Speech Detection*
    Presenter: **Tommi Gröndahl**, department of Computer Science
    Location: 2nd floor lobby

47. Demo & poster: *Breaking and repairing deniable messaging using remote attestation*
    Presenter: **Lachlan Gunn**, department of Computer Science
    Location: 2nd floor lobby

48. Demo & poster: *Stay On-Topic: Generating Context-specific Fake Restaurant Reviews*
    Presenter: **Mika Juuti**, department of Computer Science
    Location: 2nd floor lobby

49. Demo & poster: *Securely connecting IoT devices to the cloud with EAP-NOOB*
    Presenter: **Aleksi Peltonen**, department of Computer Science
    Location: 2nd floor lobby

50. Poster: *PRADA: Protecting Against DNN Model Stealing Attacks*
    Presenter: **Sebastian Szyller**, department of Computer Science
    Location: 2nd floor lobby

2nd floor

AREA 4: presentations 51-57

51. Demo & poster: *Intelligent Middle-Level Game Control*
Presenter: **Amin Babadi**, department of Computer Science
Location: 2nd floor bridge

52. Demo & poster: *Modular Design for Spherical Microphone Arrays*
Presenter: **Raimundo Gonzalez**, department of Computer Science
Location: 2nd floor bridge

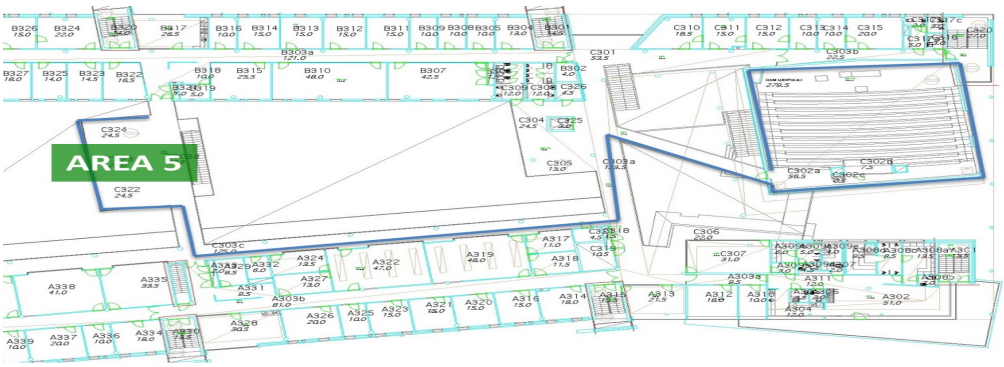
53. Poster: *Camera relocalization/semantic matching*
Presenter: **Zakaria Laskar**, department of Computer Science
Location: 2nd floor bridge

54. Demo: *Computer Graphics and Animation Research*
Presenter: **Jaakko Lehtinen**, department of Computer Science
Location: 2nd floor bridge

55. Poster: *Dilated Temporal Fully-Convolutional Neural Network for Semantic Segmentation of Motion Capture Data"*
Presenter: **Noshaba Cheema**, department of Computer Science
Location: 2nd floor bridge

56. Demo: *Long range connectivity for the Internet of Things*
Presenter: **Gopika Premsankar**, department of Computer Science
Location: 2nd floor bridge

57. Demo & poster: *Inertial-Visual Odometry*
Presenter: **Santiago Cortés Reina**, department of Computer Science
Location: 2nd floor bridge



3rd floor

AREA 5: presentations 58-67

58. Demo & poster: *Semi-supervised learning with Logistic Network Lasso*
Presenter: **Henrik Ambos**, department of Computer Science
Location: 3rd floor bridge

59. Demo: *An interactive tool for redescription mining*
Presenter: **Esther Galbrun**, department of Computer Science
Location: 3rd floor bridge

60. Demo & poster: *A machine learning environment for evaluating autonomous driving software*
Presenter: **Jussi Hanhirova**, department of Computer Science
Location: 3rd floor bridge

61. Demo & poster: *Software systems for smart mobility*
Presenter: **Jussi Hanhirova**, department of Computer Science
Location: 3rd floor bridge

62. Demo: *Resource Allocation via Declarative Programming*
Presenter: **Tomi Janhunen**, department of Computer Science
Location: 3rd floor bridge

63. Demo: *Engineering Boolean Matrix Multiplication for Multiple-Accelerator Shared-Memory Architectures*
Presenter: **Matti Karppa**, department of Computer Science
Location: 3rd floor bridge

64. Poster: *Algorithmic design of 3D wireframe RNA polyhedra*
Presenter: **Pekka Orponen**, department of Computer Science
Location: 3rd floor bridge

65. Demo: *Enhancer prediction in the human genome*
Presenter: **Maria Osmala**, department of Computer Science
Location: 3rd floor bridge

66. Demo: *EIAI - Engineered Information Systems with A.I.*
Presenter: **Jussi Rintanen**, department of Computer Science
Location: 3rd floor bridge

67. Demo & poster: *BiographySampo: Finnish Life Stories on the Semantic Web*
Presenter: **Minna Tamper**, department of Computer Science
Location: 3rd floor bridge