CS Research Day 3 Oct

AREA 1: presentations 1-40

   Presenter: Tommi Gröndahl, Department of Computer Science
   Location: 1st floor lobby

2. Poster: Amplifying IoT Honeypots with Dynamic Traffic Replay
   Presenter: Amit Tambe, Department of Computer Science
   Location: 1st floor lobby

3. Poster: Detecting Organized eCommerce Fraud Using Scalable Categorical Clustering
   Presenter: Sebastian Szyller, Department of Computer Science
   Location: 1st floor lobby

4. Poster: (Automatized) Trolling in Online Conversations
   Presenter: Henna Paakki, Department of Computer Science
   Location: 1st floor lobby

5. Poster: Machine Learning for Industrial IoT Applications
   Presenter: Anton Debner, Department of Computer Science
   Location: 1st floor lobby

6. Poster: Efficient LBS Queries with Mutual Privacy Preservation in IoV
   Presenter: Shushu Liu, Department of Communications and Networking
   Location: 1st floor lobby

7. Poster: Chameleon: Latency and Resolution Aware Task Offloading for Visual-based Assisted Driving
   Presenter: Chao Zhu, Department of Communications and Networking
   Location: 1st floor lobby

8. Poster: Beamsteering for Device-free Human Sensing
   Presenter: Sameera Palipana, Department of Communications and Networking
   Location: 1st floor lobby

9. Poster: The Case of iOS and Android: Applying System Dynamics to Digital Business Platforms
   Presenter: Tommi Elo, Department of Communications and Networking
   Location: 1st floor lobby
   Presenter: Pontus Lundström, Department of Communications and Networking
   Location: 1st floor lobby

11. Poster: Radar Waveform Recognition Using Fourier-based Synchrosqueezing Transform and Convolutional Neural Network
   Presenter: Gyuyeol Kong, Department of Signal Processing and Acoustics
   Location: 1st floor lobby

12. Poster: Analog Beamforming for Active Imaging Using Sparse Arrays
    Presenter: Robin Rajamäki, Department of Signal Processing and Acoustics
    Location: 1st floor lobby

13. Poster: Automatic Waveform Classification in Multipath using Autoencoder and Synchrosqueezing Transform with CNN
    Presenter: Visa Koivunen, Department of Signal Processing and Acoustics
    Location: 1st floor lobby

14. Poster: Robust, Sparse and Scalable Inference Using Bootstrap and Variable Selection Fusion
    Presenter: Emadal Mozaafari Majd, Department of Signal Processing and Acoustics
    Location: 1st floor lobby

15. Poster: Character-Centric Storytelling
    Presenter: Aditya Surikuchi, Department of Computer Science
    Location: 1st floor lobby

16. Poster: Data Augmentation Methods for Audio Classification
    Presenter: Ricardo Falcon Perez, Department of Computer Science
    Location: 1st floor lobby

17. Poster: On Robust Qualitative Configurations
    Presenter: Michael Sioutis, Department of Computer Science
    Location: 1st floor lobby

18. Poster: A Provable Algorithm for Intra-cluster Max-sum Dispersion
    Presenter: Guangyi Zhang, Department of Computer Science
    Location: 1st floor lobby

19. Poster: Active Learning for Decision-Making from Imbalanced Observational Data
    Presenter: Iiris Sundin, Department of Computer Science
    Location: 1st floor lobby

20. Poster: Machine Teaching of Active Sequential Learners
    Presenter: Pedram Dae, Department of Computer Science
    Location: 1st floor lobby

    Presenter: Diego Mesquita, Department of Computer Science
    Location: 1st floor lobby

22. Poster: Leave-one-our cross-validation for Large Data
    Presenter: Måns Magnusson, Department of Computer Science
    Location: 1st floor lobby
23. Poster: **ML Accelerated Spectroscopy: Molecular Excitation Spectra with Neural Networks and Beyond**  
   Presenter: **Kunal Ghosh**, Department of Computer Science  
   Location: 1st floor lobby

   Presenter: **Viivi Halla-aho**, Department of Computer Science  
   Location: 1st floor lobby

25. Poster: **Deep Generative Second Order Ordinary Differential Equations**  
   Presenter: **Cagatay Yildiz**, Department of Computer Science  
   Location: 1st floor lobby

26. Poster: **Latent Gaussian Processes with Composite Likelihoods for Data-driven Disease Stratification**  
   Presenter: **Siddharth Ramchandran**, Department of Computer Science  
   Location: 1st floor lobby

27. Poster: **PRobabilistic Enhancer PRedictIoN Tool**  
   Presenter: **Maria Osmala**, Department of Computer Science  
   Location: 1st floor lobby

28. Poster: **Bayesian Metabolic Flux Analysis Reveals Intracellular Flux Couplings**  
   Presenter: **Maria Osmala**, Department of Computer Science  
   Location: 1st floor lobby

29. Poster: **Early Detection of Peripheral Blood Cell Signature in Children Developing Beta-cell Autoimmunity at a Young Age**  
   Presenter: **Juhi Somani**, Department of Computer Science  
   Location: 1st floor lobby

30. Poster: **Modelling High-dimensional Longitudinal Omics Data with Additive Multivariate Gaussian Processes**  
   Presenter: **Gleb Tikhonov**, Department of Computer Science  
   Location: 1st floor lobby

31. Poster: **Determining Epitope Specificity of T Cell Receptors with Gaussian Processes**  
   Presenter: **Emmi Jokinen**, Department of Computer Science  
   Location: 1st floor lobby

32. Poster: **Nonparametric Differential Equation Systems**  
   Presenter: **Henrik Mannerström**, Department of Computer Science  
   Location: 1st floor lobby

33. Poster: **Gaussian Process Modeling of Longitudinal Data with Interpretable Covariate Effects**  
   Presenter: **Juho Timonen**, Department of Computer Science  
   Location: 1st floor lobby

34. Poster: **Metabolite Network Fine-tuning Using Reinforcement Learning**  
   Presenter: **Maryam Sabzevari**, Department of Computer Science  
   Location: 1st floor lobby
35. Poster: *Target Deconvolution to Understand Cellular Drug Responses*  
   Presenter: Tianduanyi Wang, Department of Computer Science  
   Location: 1st floor lobby

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

37. Poster: *A Computational Framework for DNA sequencing Microscopy*  
   Presenter: Pekka Orponen, Department of Computer Science  
   Location: 1st floor lobby

38. Poster: *RNA Structure Prediction: Energy Model Parameters Tuning*  
   Presenter: Mehdi Saman Booy, Department of Computer Science  
   Location: 1st floor lobby

39. Poster: *Algorithmic Design of 3D Wireframe RNA Polyhedra*  
   Presenter: Antti Elonen, Department of Computer Science  
   Location: 1st floor lobby

40. Poster: *Teaching Machines to Identify Crop Loss from Space*  
   Presenter: Samantha Wittke, Department of Built Environment  
   Location: 1st floor lobby
AREA 2: presentations 41-48

41. Demo: Aalto Scientific Computing: CS-IT and Science-IT
   Presenter: Mikko Hakala, Department of Computer Science
   Location: 2nd floor lobby (T1)

42. Demo: General IT Services
   Presenter: Petri Hallikainen, Aalto ITS
   Location: 2nd floor lobby (T1)

43. Demo: Open Access to Publications and Research Data and Research Data Management
   Presenter: Laura Mure, Open science and ACRIS team/Research services
   Location: 2nd floor lobby (T1)

44. Demo: Using Personal Data in Research
   Presenter: Maria Rehbinder, Academic Legal Services/Research services
   Location: 2nd floor lobby (T1)

45. Demo: Research Funding: Where to Get Money for Your Research
   Presenter: Petri Kanninen, Research services
   Location: 2nd floor lobby (T1)

46. Demo: Innovation Services
   Presenter: Juha Siivola, SCI Innovation Services
   Location: 2nd floor lobby (T1)

47. Poster: Finnish Center for Artificial Intelligence FCAI
   Presenter: Kaisa Pekkala & Outi Kivekäs, Finnish Center for Artificial Intelligence FCAI
   Location: 1st floor lobby

48. Roll-up: Aalto Digi Platform
   Presenter: Saara Halmetoja, Aalto Digi Platform
   Location: 1st floor lobby
49. Pitch talk: Time-Inconsistency Bias and Human-Agent Collaboration  
   Presenter: Mustafa Mert Celikok, Department of Computer Science  
   Location: Lecture room T4

50. Pitch talk: Reconciliation k-median: Clustering with Non-polarized Representatives  
   Presenter: Bruno Ordozgoiti, Department of Computer Science  
   Location: Lecture room T4

51. Pitch talk: Towards Deep Learning with Dynamical Systems  
   Presenter: Markus Heinonen, Department of Computer Science  
   Location: Lecture room T4

52. Pitch talk: PRobabilistic Enhancer PRedictIoN Tool  
   Presenter: Maria Osmala, Department of Computer Science  
   Location: Lecture room T4

53. Pitch talk: Bayesian Metabolic Flux Analysis Reveals Intracellular Flux Couplings  
   Presenter: Maria Osmala, Department of Computer Science  
   Location: Lecture room T4

54. Pitch talk: An Unsupervised Approach to Identifying Sub-groups in Patients with Parkinson’s Disease  
   Presenter: Siddharth Ramchandran, Department of Computer Science  
   Location: Lecture room T4

55. Pitch talk: ODE2VAE: Deep Generative Second-order ODEs with Bayesian Neural Networks  
   Presenter: Cagatay Yildiz, Department of Computer Science  
   Location: Lecture room T4

56. Pitch talk: Improved Precision and Recall Metric for Assessing Generative Models  
   Presenter: Tuomas Kynkäänniemi, Department of Computer Science  
   Location: Lecture room T4

57. Pitch talk: Active Learning for Decision-Making from Imbalanced Observational Data  
   Presenter: Iris Sundin, Department of Computer Science  
   Location: Lecture room T4
58. Pitch talk: Scaling Agile to Large and Distributed Organisations
Presenter: Abheeshta Putta, Department of Computer Science
Location: Lecture room T4
AREA 4: presentations 59-69

59. Demo: Interactive Exploratory Search with Probabilistic User-Intent Modelling
   Presenter: Jonathan Stahrl, Department of Computer Science
   Location: 2nd floor bridge

60. Demo: Limits of Locality in Distributed Computing
   Presenter: Juho Hirvonen, Department of Computer Science
   Location: 2nd floor bridge

61. Demo: Complex Systems & Networks
   Presenter: Jari Saramäki, Department of Computer Science
   Location: 2nd floor bridge

62. Poster: Deep Learning with Uncertainty Estimation for Emitter Classification
   Presenter: Lassi Meronen, Department of Computer Science
   Location: 2nd floor bridge

63. Poster: Know Your Boundaries: Constraining Gaussian Processes by Variational Harmonic Features
   Presenter: Arno Solin, Department of Computer Science
   Location: 2nd floor bridge

64. Poster: End-to-End Probabilistic Inference for Nonstationary Audio Analysis
   Presenter: William Wilkinson, Department of Computer Science
   Location: 2nd floor bridge

65. Poster: Towards Photographic Image Manipulation with Balanced Growing of Generative Autoencoders
   Presenter: Ari Heljakka, Department of Computer Science
   Location: 2nd floor bridge

66. Poster: Multi-View Stereo by Temporal Nonparametric Fusion
   Presenter: Yuxin Hou, Department of Computer Science
   Location: 2nd floor bridge

67. Poster: Indoor Visual Localization
   Presenter: Xiaotian Li, Department of Computer Science
   Location: 2nd floor bridge
68. Poster: *Inertial-Visual Odometry*
   Presenter: **Santiago Cortes**, Department of Computer Science
   Location: 2nd floor bridge

69. Demo: *Advances in Probabilistic Machine Learning and Computer Vision*
   Presenter: **Arno Solin**, Department of Computer Science
   Location: 2nd floor bridge
AREA 5: presentations 70-77

70. Demo: Cognitive Assistance Authoring Toolchain
    Presenter: Truong An Pham, Department of Communications and Networking
    Location: 3rd floor bridge

71. Demo: VR Rehabilitation for Acute-phase Stroke Patients
    Presenter: Ilpo Härkönen, Department of Communications and Networking
    Location: 3rd floor bridge

72. Demo: Self-Optimizing Web Pages
    Presenter: Markku Laine, Department of Communications and Networking
    Location: 3rd floor bridge

73. Demo: GAN Mirror
    Presenter: Andrzej Pisarek, Department of Computer Science
    Location: 3rd floor bridge

74. Demo: Vision-based Indoor Navigation for Smartphones
    Presenter: Jiang Dong, Department of Computer Science
    Location: 3rd floor bridge

75. Demo & poster: PAC it up: Towards Pointer Integrity using ARM Pointer Authentication
    Presenter: Hans Liljestrand, Department of Computer Science
    Location: 3rd floor bridge

76. Demo & poster: Making Targeted Evasion Attacks Effective and Efficient
    Presenter: Buse Atli, Department of Computer Science
    Location: 3rd floor bridge

77. Demo: Secure Bootstrapping on Contiki with EAP-NOOB
    Presenter: Aleksi Peltonen, department of Computer Science
    Location: 3rd floor bridge