



UMEÅ UNIVERSITY

Programme

48th Winter Conference in Statistics, March 10-14, 2024, Hemavan

Theme: Mathematical Foundations of AI & Statistical Learning

Breakfast: 07.30 – 09.00; Lunch: 12.00 – 13.00		
Coffee/Tea: 10.00, 15.30 (Lounge bar)		
Sunday, March 10		
Dinner	18.15 – 19.30	
Welcome reception	20.00	Lounge bar
Monday, March 11		
Kjersti Aas	08.15 – 09.00	Explainable AI – Introduction
Kjersti Aas	09.15 – 10.00	Explainable AI – Shapley values
<i>Participant pitch</i>	10.00 – 10.30	
Gitta Kutyniok	16.15 – 17.00	Reliable AI – Introduction
Gitta Kutyniok	17.15 – 18.00	Reliable AI – Expressivity, Learning, and Generalization
Dinner	18.15 – 19.30	
Poster Session	20.00 – 22.00	Albert Wendsjö Emma Andersdotter Svensson Haingoharijao Faniriniaina Ramandiamanana Filip Edström Hassan Bozorgmanesh Huixia Wang Joakim Wallmark Josline Adhiambo Otieno Kean Tang Konstantinos Konstantinou Lars Mattsson Michele di Sabato Mohammad Ghasempour Mohammad Reza Seydi Stefan Stojanovic



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Tuesday, March 12		
Gitta Kutyniok	08.15 – 09.00	Reliable AI – Theoretical Legal Requirements of the EU AI Act
Gitta Kutyniok	09.15 – 10.00	Reliable AI – Limitations
Winter Games	15.15 – 16.30	
Kjersti Aas	17.15 – 18.00	Explainable AI – Counterfactual explanations
Conference Dinner	19.00	
Wednesday, March 13		
Guido Montúfar	08.15 – 09.00	Deep learning – data, approximation, optimization
Guido Montúfar	09.15 – 10.00	Deep learning – generalization, over-parametrized models
<i>Contributed speaker:</i> Nicola Orsini	16.30 – 17.00	The role of quantiles in statistical learning
<i>Contributed speaker:</i> Oskar Allerbo	17.15 – 17.45	Solving kernel ridge regression with gradient descent for a non-constant kernel
Dinner	18.15 – 19.30	
Thursday, March 14		
Guido Montúfar	08.15 – 09.00	Deep learning – learning regimes, algorithmic regularization
Guido Montúfar	09.15 – 10.00	Deep learning – parameter and function space perspectives of learning
<i>Contributed speaker:</i> Christian Ewald	10.15 – 10.45	Monte Carlo methods for real options under parameter uncertainty in multi-dimensional models
<i>Closing</i>	10.45 – 11.00	
Lunch	11.00	
Departure by bus	12.15	