

SWAM Schedule

IT: Invited Talk, CT: Contributed Talk, SI: Short Introduction.

Thursday, 17th November

K1 lecture room, [Campus Karlín](#)

8:15–8:50	Registration		
8:50–9:00	Workshop opening		
	<i>Chair: Tomislav Rožić</i>		
9:00–10:30	IT	Rolf Poulsen Copenhagen, Denmark	Tools for Modern Computational Finance
10:30–11:00	Coffee break		
	<i>Chair: Jakob Zech</i>		
11:00–11:45	IT	Jens Saak Magdeburg, Germany	A Journey to Digital Twins of Machine Tools
11:45–12:30	IT	Melina Freitag Potsdam, Germany	From Models to Data and Back - An Introduction to Data Assimilation Algorithms
12:30–13:45	Lunch break		
	<i>Chair: Jens Saak</i>		
13:45–14:05	CT	Jonas Schulze Magdeburg, Germany	Diagonally Addressed Matrices
14:05–14:25	CT	Petr Vacek Prague, Czech Republic	Stopping Criteria for Coarsest-grid Solver in Multigrid V-cycle Method
14:25–14:45	CT	Mohamed Amine Hamadi Dunkirk, France	A Data-driven Krylov Model Order Reduction for Large-Scale Dynamical Systems
14:45–15:00	CT	Mariia Vlasiuk Lviv, Ukraine	On the Integral Equations Approach for Solving Nonlinear Inverse Elastostatics Problem
15:00–15:15	SI	Student Introduction	<i>Students will introduce themselves in at most 4 minutes each.</i>
15:15–15:45	Coffee break		
15:45–17:15	SI	Student Introduction	<i>Students will introduce themselves in at most 4 minutes each.</i>
19:00	Conference dinner		

Friday, 18th November

S3 lecture room, [Malá Strana Campus](#)

		<i>Chair: Melina Freitag</i>	
9:00–9:45	IT	Roman Neruda Prague, Czech Republic	Adversarial Examples: How Safe are Machine Learning Models
9:45–10:30	IT	Cristóbal Bertoglio Groningen, Netherlands	Inverse Problems in Blood Flow Modeling
10:30–11:00	Coffee break		
		<i>Chair: Roman Neruda</i>	
11:00–11:45	IT	Jan Papež Prague, Czech Republic	Can a Computed Result be Relied on?
11:45–12:30	IT	Martin Stoll Chemnitz, Germany	From PDEs to Data Science: An Adventure with the Graph Laplacian
12:30–13:45	Lunch break		
		<i>Chair: Martin Stoll</i>	
13:45–15:15	IT	Jakob Zech Heidelberg, Germany	Large Scale Bayesian Inversion: Sparse-Grid and Transport Methods
15:15–15:45	Coffee break		
		<i>Chair: Friedemann Kemm</i>	
15:45–16:30	IT	Petr Minařík Prague, Czech Republic	Realtime Interactive Volumetric Water Simulation
16:30–17:15	IT	Oldřich Semerák Prague, Czech Republic	On the Marmoreally Beautiful and yet Unlovely Sides of Einstein Equations
17:15–17:30	Coffee break		
17:30	City tour		

Saturday, 19th November

K1 lecture room, [Campus Karlín](#)

		<i>Chair: Martin Sýkora</i>	
9:00–10:30	IT	Friedemann Kemm Cottbus, Germany	How to Prepare a Scientific Presentation
10:30–11:00	Coffee break		
		<i>Chair: Jana Brunátová, Purusharth Saxena</i>	
11:00–11:20	CT	Azza Gaysin Prague, Czech Republic	Proof Complexity of CSP
11:20–11:40	CT	Josephine Westermann Heidelberg, Germany	Transport Based Sampling Using Polynomial Density Surrogates
11:40–12:00	CT	Liya Gaynutdinova Prague, Czech Republic	Micromechanical Parameter Identification Using Bayes Method
12:00–12:20	CT	Muhammad Sami Siddiqui Karachi, Pakistan	Euler Elastica Model & Its Treatment
12:20–12:40	CT	Panasun Manorost Heidelberg, Germany	Surface/Subsurface Flow Simulation
12:40–13:00	CT	Antonio Bellon Prague, Czechia	Time-Varying Semidefinite Programming: Path Following a Burer–Monteiro Factorization
13:00–13:10	Closing remarks		