

Scientific Program YRM/CSE Workshop 2019

Monday, March 18

09:00 - 12:00	<i>Arrival</i>	
12:00 - 13:30	<i>Lunch</i>	
13:30 - 14:00	<i>Registration and Introduction YRM</i>	
14:00 - 14:30	Analysis of the discretization error in the RBF-FD method	Willi Leinen
14:30 - 15:00	QR Decomposition of Hierarchical Matrices	Vincent Griem
15:00 - 15:30	Reduced basis methods for parametrized linear parabolic problems	Denis Korolev
15:30 - 16:00	<i>Coffee break</i>	
16:00 - 16:30	Climate Model Optimisation by Single Precision	Alessandro Cotronei
16:30 - 17:00	Approximation of marine ecosystem models using artificial neural networks	Markus Pfeil
17:00 - 17:30	Kernel matrices with off diagonal decay	Hagen Söding
17:30 - 18:00	Large-scale Non-autonomous Differential Riccati Equations	Björn Baran
18:00	<i>Dinner</i>	

Tuesday, March 19

09:00 - 12:00	YRM Workshop Storytelling with data	
12:00 - 13:30	<i>Lunch</i>	
13:30 - 14:00	Registration and Introduction CSE Workshop	
14:00 - 15:00	Invited Talk: Low-regularity integrators for dispersive equations	Katharina Schratz
15:00 - 15:30	Finite element error estimates in $L^2(\Omega)$ for regularized discrete approximations to the obstacle problem	Christian Kahle
15:30 - 16:00	<i>Coffee break</i>	
16:00 - 16:30	Local pressure corrections for incompressible flows	Utku Kaya
16:30 - 17:00	The role of degenerate mobilities in Cahn-Hilliard models	Marion Dziwnik
17:00 - 17:30	Modification of Parareal with application to hyperbolic problems	Benedict Philippi
18:00	<i>Dinner</i>	

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Wednesday, March 20

09:00 - 10:00	Invited Talk: Low-rank tensor methods for PDE-constrained optimization under uncertainty	Peter Benner
10:00 - 10:30	Reconstruction based DG methods: Features and Challenges	Claus Goetz
10:30 - 11:00	<i>Coffee Break</i>	
11:00 - 11:30	Uniqueness of global solutions in VI-constrained optimization	Michael Hinze
11:30 - 12:00	Reduced basis method--application to elliptic control problems and variational discretization	Ahmad Ahmad Ali
12:00 - 13:30	<i>Lunch</i>	
14:00 - 14:30	Model-based design of kernel approximation methods for data analysis	Armin Iske
14:30 - 15:00	Estimation of aggregation kernels from time-sparse measurements	Robin Ahrens
15:00 - 15:30	Kernel Density Estimates in Marine Ecosystem Modeling and Parameter Optimization	Thomas Slawig
15:30 - 16:00	<i>Coffee break</i>	
16:00 - 16:30	Direct solvers for RBF interpolation problems	Sabine Le Borne
16:30 - 17:00	Analysis and an Interior Point Approach for TV Image Reconstruction Problems on Smooth Surfaces	Heiko Kröner
17:00 - 17:30	Optimization in holocratic subspaces	Krachmann
19:00	<i>Conference Dinner (Alte Schwimmhalle)</i>	

Thursday, March 21

09:00 - 10:00	Invited Talk: Optimization with convex constraints and an application in topology optimization	Luise Blank
10:00 - 10:30	A Cahn-Hilliard Navier-Stokes Method for CFL-Independent Simulations	Niklas Kühl
10:30 - 11:00	<i>Coffee Break</i>	
11:00 - 11:30	POD model order reduction with space-adapted snapshots for incompressible flows	Carmen Gräßle
12:30 - 13:00	<i>Lunch</i>	
13:30	<i>Departure</i>	