

Young Researchers Meeting & CSE Workshop

Plön 2020

Time	Monday, 23.03.20	Tuesday, 24.03.20
10:00 - 12:00	Arrival	J. Behrens: <i>Form follows function – how to design presentations (oral or written)</i> OR A. Iske: <i>Applications and interviews in science: the dos and don'ts</i>
12:00 - 13:00	Lunch	Lunch
13:00 - 13:30	Registration and Introduction YRM	Registration and Introduction CSE Workshop
13:30 - 14:00	Onyshkevych, S.: <i>Shape optimization in Navier-Stokes flow</i>	INVITED LECTURE
14:00 - 14:30	Müller, P.: <i>Decoupling of control and force objective in adjoint-based fluid dynamic shape optimization</i>	Spence, E.: <i>Resolution of a long-standing open question in the numerical analysis of boundary integral equations for Laplace's equation</i>
14:30 - 15:00	Pfeil, M.: <i>Surrogate-based optimization using an artificial neural network</i>	Dziwnik, M.: <i>Diffusion vs. surface diffusion: dynamics and stability of self-similar pinchoff</i>
15:00 - 15:30	Verwege, M.: <i>Finite element based implementation of the diffusion kernel density estimator enables analysis of unknown data sets</i>	von Allwörden, H.: <i>Classification of stop-and-go waves in microscopic traffic flow models</i>
15:30 - 16:00	Coffee break	Coffee break
16:00 - 16:30	Patel, H.: <i>Multiscale methods application to canopies in earth system</i>	Do, T.: <i>Discrete regularization for parameter identification problems</i>
16:30 - 17:00	Leinen, W.: <i>Analysis of the discretization error in the RBF-FD method</i>	Schmidt, C.: <i>Dynamic concentration reconstruction for magnetic particle imaging using splines</i>
17:00 - 17:30	Albrecht, K.: <i>Greedy methods in kernel-based learning</i>	Beckmann, M.: <i>On a new non-linear inverse problem involving the Radon transform</i>
17:30 - 18:00	Haase, R.: <i>Explicitly constrained robust PCA for groupwise image registration</i>	Krause-Solberg, S.: <i>1-bit compressed sensing on manifolds</i>
18:00 - 19:00	Dinner	Dinner
19:00 - ...	Network activities	Get together

Time	Wednesday, 25.03.20	Thursday, 26.03.20
9:30 - 10:30	INVITED LECTURE Wieners, C.: <i>Space-time discontinuous Galerkin methods for linear hyperbolic systems</i>	INVITED LECTURE Padberg-Gehle, K.: <i>Identification and characterization of coherent behavior in flows</i>
10:30 - 11:00	Coffee break	Coffee break
11:00 - 11:30	Goetz, C.: <i>Understanding GRP solvers</i>	Neumann, P.: <i>Molecular-continuum flow simulation with MaMiCo: Where HPC and data analytics meet</i>
11:30 - 12:00	Schramm, L.: <i>ROW methods and W-methods for the incompressible Navier-Stokes equations</i>	Slawig, T.: <i>A design pattern approach in PDE-constrained optimization</i>
12:00 - 12:30	Behrens, J.: <i>Efficiency metrics for adaptive mesh refinement algorithms</i>	Siebenborn, M.: <i>Scalable algorithms for interface identification and shape optimization in function spaces</i>
12:30 - 13:30	Lunch	Lunch
13:30 - 14:00	Philippi, B.: <i>In-time parallelization of hyperbolic problems</i>	Departure
14:00 - 14:30	Ruprecht, D.: <i>Some recent developments in the field of parallel-in-time integration</i>	
14:30 - 15:00	Götschel, S.: <i>Parallelization in time for optimal control and inverse problems</i>	
15:00 - 15:30	Ahrens, R.: <i>Efficient numerical treatment of aggregation integrals in multivariate population balance equations</i>	
15:30 - 16:00	Coffee break	
16:00 - 16:30	Le Borne, S.: <i>Mathematician meets Physicist: High performance simulations of next generation light sources</i>	
16:30 - 17:00	Griem, V.: <i>A new approach to the QR decomposition of hierarchical matrices</i>	
17:00 - 17:30	Wagner, N.: <i>Constructing Laplacian matrices for image compression by adaptive thinning</i>	
17:30 - 19:00		
19:00 - ...	Dinner at Restaurant „Alte Schwimmhalle“	