→ Agenda



Community Workshop: Performance Engineering for Numerical Methods in Computational Fluid Dynamics

Thursday, Jun 13, 2024

- 01.00 pm Welcome Prof. Matthias Müller, RWTH Aachen
- 01.15 pm Lessons learned from a performance analysis of an OpenFOAM HPC Grand Challenge – Marta Garcia Gasulla, Barcelona Supercomputing Center
- 01.55 pm **Performance modeling for CFD Applications –** Gustavo de Morais & Alexander Geiß, TU Darmstadt
- 02.30 pm Assessing the performance of solvers for kinetic plasma dynamics in a six-dimensional phase-space – Paul Wilhelm & Fabian Orland, RWTH Aachen
- 03.05 pm Coffee break
- 03.20 pm Explaining and controlling turbulent flows through deep learning Prof. Ricardo Vinuesa, KTH Stockholm
- 04.20 pm Performance and Correctness Analysis of an Exascale Application Dr. Joachim Jenke, RWTH Aachen

Friday, Jun 14, 2024

- 01.00 pm Welcome Prof. Christian Hasse, TU Darmstadt
- 01.05 pm Efficient use of computational resources: The Wavelet Adaptive Multi-resolution Method – Dr. Temistocle Grenga, University of Southampton
- 01.55 pm Porting CPU-based/optimized combustion codes to CPU-GPU heterogeneous architectures – Dr. Daniel Mira Martinez, Barcelona Supercomputing Center
- 02.45 pm Coffee break
- 03.10 pm Performance Assessments of the Lattice Boltzmann Solver Musubi – Dr. Harald Klimach, German Aerospace Center
- 04.00 pm **Panel Discussion,** hosted by Prof. Christian Hasse, TU Darmstadt





