

GPU Computing in Computational Engineering

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Wednesday, October 14

10:40-11:00	<p><i>Application of GPGPU on the Lattice Boltzmann Method to Simulate Incompressible Flows,</i> X. Wang, T. Aoki (page 61)</p>
11:00-11:20	<p><i>GPU Cluster Computing for FEM,</i> D. Gödekke, S.H.M. Buijssen, H. Wobker, and S. Turek (page 62)</p>
11:20-11:40	<p><i>Finite Differences and High-Order Finite Elements on Graphics Processors for the Seismic Wave Equation,</i> D. Michéa, D. Komatitsch, G. Erlebacher, and D. Göddeke (page 63)</p>
11:40-12:00	<p><i>Efficient GPU-based algorithms for solving systems of conservation laws,</i> A. R. Brodtkorb, T. R. Hagen, K.-A. Lie, and J. R. Natvig (page 64)</p>
12:00-12:20	<p><i>Interactive 3D-CFD Utilizing Multiple GPUs</i> M. Krafczyk, J. Linxweiler, M. Schönherr, C. Janssen, S. Geller (page 70)</p>

14:10-14:30	<i>Using GPUs to Accelerate the Solution of Large-Scale Model Reduction Problems,</i> P. Benner, F. Igual, D. Kressner, E. S. Quintana-Ortí, and A. Remón (page 66)
14:30-14:50	<i>Performance Evaluation of Numerical Compute Kernels on GPUs,</i> J. Habich, S. Donath, G. Hager, G. Wellein, Th. Zeiser, and U. Rüde (page 67)
14:50-15:10	<i>Parallel Management of Medium Grained Adaptive Discretizations,</i> R. Strzodka (page 69)
15:10-15:30	<i>GPU accelerated Monte Carlo simulation of the 2D and 3D Ising model,</i> T. Preis (page 65)