Hochschulbibliographie

Name:
Informatik 5 - Lehrstuhl für Wissenschaftliches Rechnen (Prof. Bungartz)

Occurences:
- Hochschulbibliographie > 2017 > Fakultäten > Informatik
Entries:

[1/59]: Farcas, Ionut-Gabriel; Goerler, Tobias; Bungartz, Hans-Joachim; Neckel, Tobias, A Sparse Pseudo-Spectral Projection Method in Linear Gyrokinetics, Quantification of Uncertainty: Improving Efficiency and Technology, International School for Advanced Studies, Main Campus, 2017


[3/59]: Arndt Bode; Manfred Broy; Hans-Joachim Bungartz; Florian Matthes, 50 Jahre Universitäts-Informatik in München, Springer Verlag, 2017

[4/59]: Rüth, Benjamin, Time Stepping for Partitioned Multi-Physics, GAMM CSE Workshop 2017, 2017


[7/59]: Uphoff, Carsten, Large scale dynamic rupture simulations of the 2004 Sumatra earthquake, SIAM Conference on Mathematical and Computational Issues in the Geosciences, Erlangen, Germany, 2017

[8/59]: Reinarz, Anne; Fletcher, Tim; Dodwell, Tim; Butler, Richard; Scheichl, Robert, Multiscale Modelling of Lamination Defects in Curved Structures, 21st International Conference on Composite Materials, 2017

[9/59]: Dodwell, Tim; Reinarz, Anne; Sandhu, Anhad, Uncertainty Quantification of Composite Structures with Wrinkle Defects using Stochastic Simulation, 21st International Conference on Composite Materials, 2017

[10/59]: Bräckle, Jürgen; Huckle, Thomas; Anzt, Hartwig; Dongarra, Jack, Incomplete Sparse Approximate Inverses for Parallel Preconditioning, Parallel Computing, 2017, Oct


[12/59]: 2017


[14/59]: Dietrich, Felix, Data-Driven Surrogate Models for Dynamical Systems, 2017, Dissertation

[15/59]: Philipp Samfass, Towards Reactive Task-Based Work Stealing in Distributed Memory in sam(oa)^2, 4th International Conference on Computational Engineering (ICCE 2017), 2017

[16/59]: Riesinger, Christoph; Bakhtiari, Arash; Schreiber, Martin; Neumann, Philipp; Bungartz, Hans-Joachim, A Holistic Scalable Implementation Approach of the Lattice Boltzmann Method for CPU/GPU Heterogeneous Clusters, Computation, 2017, 5, 4, Nov

[17/59]: Rippl, Michael, Efficient Transformation of the General Eigenproblem with Symmetric Banded Matrices to a Banded Standard Eigenproblem, PASC, 2017

[18/59]: Hans-Joachim Bungartz, 50 Jahre Informatik in München, Festakt TUM, 2017

[19/59]: Michael Bader, sam(oa)^2 - Space-Filling Curves and Adaptive Meshes for Oceanic and Other Applications, SIAM Conference on Mathematical and Computational Issues in the Geosciences (GS17), 2017


[21/59]: Obersteiner, Michael; Parra Hinojosa, Alfredo; Heene, Mario; Bungartz, Hans-Joachim; Pfliiger, Dirk, A Highly Scalable, Algorithm-Based Fault-Tolerant Solver for Gyrokinetic Plasma Simulations, ScalA ’17: Proceedings of the 8th Workshop on Latest Advances in Scalable Algorithms for Large-Scale Systems, 2017

[22/59]: Lindner, Florian; Mehl, Miriam; Ueckermann, Benjamin, Radial Basis Function Interpolation for Black-Box Multi-Physics Simulations, Coupled Problems, 2017

[23/59]: Ueckermann, Benjamin; Bungartz, Hans-Joachim; Cheung Yau, Lucia; Chourdakis, Gerasimos; Rusch, Alexander, Official preCICE Adapters for Standard Open-Source Solvers, Proceedings of the 7th GACM Colloquium on Computational Mechanics for Young Scientists from Academia, 2017

[25/59]: Farcas, Ionut-Gabriel, Multilevel sparse Leja approximations in Bayesian inversion, Frontiers of Uncertainty Quantification in Engineering (FrontUQ), 2017

[26/59]: Uphoff, Carsten; Rettenberger, Sebastian; Bader, Michael; Madden, Elizabeth H.; Ulrich, Thomas; Wollherr, Stephanie; Gabriel, Alice-Agnes, Extreme Scale Multi-Physics Simulations of the Tsunamigenic 2004 Sumatra Megathrust Earthquake, SC '17: Proceedings of the International Conference for High Performance Computing, Networking, Storage and Analysis, Denver, USA, ACM, 2017

[27/59]: Riesinger, Christoph, Scalable scientific computing applications for GPU-accelerated heterogeneous systems, 2017, Dissertation

[28/59]: Jarema, Denis, Efficient Eulerian Gyrokinetic Simulations with Block-Structured Grids, 2017, Dissertation


[30/59]: Yu, Chenhan D.; Levitt, James; Reiz, Severin; Biros, George, Geometry-Oblivious FMM for Compressing Dense SPD Matrices, Proceedings of the International Conference for High Performance Computing, Networking, Storage and Analysis SC17, IEEE, 2017


[32/59]: Uphoff, Carsten, SeisSol on KNL, IXPUG Annual Spring Conference 2017, Cambridge, United Kingdom, 2017

[33/59]: Uphoff, Carsten, Large-Scale Dynamic Rupture Simulations with SeisSol on KNL Platforms, SIAM Conference on Computational Science and Engineering, Atlanta, USA, SIAM, 2017

[34/59]: Parra Hinojosa, Alfredo; Bungartz, Hans-Joachim; Pflüger, Dirk, Scalable Algorithmic Detection of Silent Data Corruption for High-Dimensional PDEs, Sparse Grids and Applications 2016, 2017


[38/59]: Rippl, Michael, Efficient Transformation of the General Eigenproblem with Symmetric Banded Matrices to a Banded Standard Eigenproblem, SIAM Conference on Computational Science and Engineering, 2017

[39/59]: Tchipev, Nikola; Costinescu, Andrei; Seckler, Steffen; Neumann, Philipp; Bungartz, Hans-Joachim, Towards Autotuning Between OpenMP Schemes for Molecular Dynamics on Intel Xeon Phi, SIAM Conference on Computational Science and Engineering, Atlanta, Georgia, 2017


[41/59]: Mo-Hellenbrand, Ao; Compres, Isaiai Alberto; Meister, Oliver; Bungartz, Hans-Joachim; Gerndt, Michael; Bader, Michael, A Large-Scale Malleable Tsunami Simulation Realized on an Elastic MPI Infrastructure, Proceedings of the Computing Frontiers Conference, CF'17, ACM, 2017


[44/59]: Rannabauer, Leonhard, Optimizing the Earthquake Simulation Code SeisSol for Heterogeneous Xeon Phi Supercomputers, SIAM Conference on Computational Science and Engineering, 2017

[45/59]: Michael Bader, The ExaHyPE Project - Towards an Exascale Hyperbolic PDE Engine, Workshop on HPC in Atmosphere Modelling and Air Related Environmental Hazards, 2017
[46/59]: Michael Bader, Towards an Exascale Hyperbolic PDE Engine: High Order ADER-DG on Tree-Structured Cartesian Meshes, SIAM Conference on Computational Science and Engineering (CSE17), 2017

[47/59]: Neumann, Philipp; Kowitz, Christoph; Schraner, Felix; Azarnykh, Dmitrii, Interdisciplinary teamwork in HPC education: Challenges, concepts, and outcomes, Journal of Parallel and Distributed Computing, 2017, Jan

[48/59]: Jarema, Denis; Bungartz, Hans-Joachim; Görler, Tobias; Jenko, Frank; Neckel, Tobias; Told, Daniel, Block-Structured Grids in Full Velocity Space for Eulerian Gyrokinetic Simulations, Computer Physics Communications, 2017, 215, 49 - 62

[49/59]: August, Moritz; Banuls, Mari Carmen; Huckle, Thomas, On the Approximation of Functionals of Very Large Hermitian Matrices represented as Matrix Product Operators, Electronic Transactions on Numerical Analysis, 2017


[51/59]: Neumann, Philipp; Zellner, Michael, Lattice Boltzmann Flow Simulation on Android Devices for Interactive Mobile-Based Learning, Euro-Par 2016: Parallel Processing Workshops, Springer, 2017

[52/59]: August, Moritz; Ni, Xiaotong, Using Recurrent Neural Networks to Optimize Dynamical Decoupling for Quantum Memory, Physical Review A, 2017

[53/59]: Parra Hinojosa, Alfredo, Toward Resilient Exascale PDE Solvers Using the Combination Technique, 2017, Dissertation, 123 Seiten

[54/59]: Riesinger, Christoph, Scalable scientific computing applications for GPU-accelerated heterogeneous systems, 2017, Dissertation, 213 Seiten

[55/59]: Dietrich, Felix, Data-Driven Surrogate Models for Dynamical Systems, 2017, Dissertation, 142 Seiten


[57/59]: Neckel, Tobias; Parra Hinojosa, Alfredo; Rupp, Florian, Path-Wise Algorithms for Random and Stochastic ODEs with Applications to Road Network Analysis, 2017

[58/59]: Tchipev, Nikola; Gallard, Jean-Matthieu; Gratl, Fabio; Obersteiner, Michael; Neumann, Philipp; Bungartz, Hans-Joachim, A Highly Optimized Implementation of the Fast Multipole Method within the Molecular Dynamics Code Isi-mardyn, Darmstadt, Germany, 2017

[59/59]: Tobias Neckel, Alfredo Parra Hinojosa, Florian Rupp, Path-Wise Algorithms for Random & Stochastic ODEs with Applications to Ground-Motion-Induced Excitations of Multi-Storey Buildings, 2017