



<p>An Algorithm-Based Recovery Scheme for Exascale Computing Hui Liu (Colorado School of Mines, Golden, US)</p>
<p>Lightweight Methods for Automated Design of Self-Stabilization Aly Farahat and Ali Ebnenasir (Michigan Technological University, US)</p>
<p>A Parallel Time-dependent Multimodal Shortest Path Algorithm Based on Geographical Partitioning Hedi Ayed (CRP Henri Tudor Luxembourg, Luxembourg, LU)</p>
<p>Communication Optimization Beyond MPI Andrew Friedley and Andrew Lumsdaine (Indiana University, Bloomington, US)</p>
<p>Efficient Agreement Protocols in Asynchronous Distributed Systems Izabela Moise (University Rennes 1, IRISA/INRIA, Rennes, FR)</p>
<p>Efficient Verification Solutions for Message Passing Systems Subodh Sharma and Ganesh Gopalakrishnan (University of Utah, Salt Lake City, US)</p>
<p>Decentralized Network Bandwidth Prediction and Node Search Sukhyun Song (University of Maryland, College Park, US)</p>
<p>Large-Scale Parallel Monte Carlo Tree Search on GPU Kamil Rocki and Reiji Suda (The University of Tokyo, JP)</p>
<p>Memory-aware algorithms and scheduling techniques: from multicore processors to petascale supercomputers Mathias Jacquelin (ENS Lyon, FR)</p>
<p>Memory Hierarchy Aware Parallel Priority Based Data Structures Dinesh Agarwal and Sushil Prasad (Georgia State University, Atlanta, US)</p>
<p>Parallel Algorithms for Bayesian Networks Structure Learning with Applications to Systems Biology Olga Nikolova and Srinivas Aluru (Iowa State University, Ames, US)</p>
<p>Fault tolerant data acquisition through dynamic load balancing Michał Simon (Silesian University of Technology, Geneva, CH)</p>
<p>A Codesigned Fault Tolerance System for Heterogeneous Many-Core Processors Keun Soo Yim and Ravishankar Iyer (University of Illinois at Urbana-Champaign, US)</p>
<p>Towards a storage backend optimized for atomic MPI-IO for parallel scientific applications Viet-Trung Tran (ENS Cachan, IRISA/INRIA, Rennes, FR)</p>
<p>Programming Heterogeneous Systems David Kunzman and Laxmikant Kale (University of Illinois at Urbana-Champaign, Urbana, US)</p>
<p>Data Parallel Programming Model for Many-Core Architectures Yongpeng Zhang (North Carolina State University, Dickson, US)</p>
<p>Detection and Correction of Silent Data Corruption for Large-Scale High-Performance Computing David Fiala (North Carolina State University, Dickson, US)</p>
<p>Improving Job Scheduling on Production Supercomputers Wei Tang and Zhiling Lan (Illinois Institute of Technology, Chicago, US) and Narayan Desai (Argonne National Laboratory, US)</p>
<p>Towards a Self-Adaptive Data Management System for Cloud Environments Alexandra Carpen-Amarie (INRIA/IRISA, Rennes, FR)</p>
<p>An Integrated Scratch Management Service for HPC Centers Henry Monti (Virginia Tech, US)</p>
<p>Policy Based Data Placement in High Performance Scientific Computing Muhammad Amer (University of Southern California, Los Angeles, US)</p>
<p>Automatic Generation of Executable Communication Specifications from Parallel Applications Xing Wu and Frank Mueller (North Carolina State University, Dickson, US) and Scott Pakin (Los Alamos National Laboratory, US)</p>
<p>Scout: High-Performance Heterogeneous Computing Made Simple James Jablin (Brown University, Providence, US) and Pat McCormick (Los Alamos National Laboratory, US) and Maurice Herlihy (Brown University, Providence, US)</p>
<p>Building Dynamic Computing Infrastructures over Distributed Clouds Pierre Riteau (University Rennes 1, IRISA/INRIA, Rennes, FR)</p>
<p>Next Generation Sequencing: Algorithms and Applications Xiao Yang (Iowa State University, Ames, US)</p>
<p>Performance Analysis of Long-running Applications Zoltan Szebenyi (Jülich Supercomputing Centre, DE) and Felix Wolf (German Research School for Simulation Sciences, Aachen, DE) and Brian Wylie (Jülich Supercomputing Centre, DE)</p>
<p>p2MATLAB: Productive Parallel MATLAB for the Exascale Vipin Sachdeva and David Bader (Georgia Institute of Technology, Atlanta, US)</p>
<p>A Framework for Automated Performance Tuning and Code Verification on GPU Computing Platforms Allison Gehrke and Daniel Connors and Ilkyeun Ra (University of Colorado Denver, Denver, US)</p>

(*Note: Author listed first is PhD student who will be presenting poster.)