24th IEEE International Parallel & Distributed Processing Symposium
19-23 April 2010 - ATLANTA Georgia USA

IPDPS 2010 PhD Forum
Research Projects Selected for Poster Presentation

Memory Affinity Management for Numerical Scientific Applications over Multi-core Multiprocessors with Hierarchical Memory
Christiane Pousa Ribeiro and Alexandre Carissimi and Jean-François Méhaut - Computer Science and Applied Mathematics Institute of Grenoble, France

Performance Improvements of Real-Time Crowd Simulations
Guillermo Vigueras and Juan Manuel Orduna and Miguel Lozano - University of Valencia, Spain

Parallel Applications on Emerging Architectures
Abhinav Sarje and Srinivas Aluru - Iowa State University, USA

Fault Tolerant Linear Algebra: Recovering from Fail-Stop Failures without Checkpointing
Teresa Davies and Zizhong Chen - Colorado School of Mines, USA

Highly Scalable Checkpointing for Exascale Computing
Christer Karlsson and Zizhong Chen - Colorado School of Mines, USA

Performance Modeling of Heterogeneous Systems
Jan Meyer and Anne C. Elster - Norwegian University of Science and Technology, Norway

Large-Scale Distributed Storage for Highly Concurrent MapReduce Applications
Diana Moise - INRIA-IRISA, France

Scalable Verification of MPI Programs
Anh Vo and Ganesh Gopalakrishnan - University of Utah, USA

Compiling Away Deterministic Concurrency
Nalini Vasudevan and Stephen A. Edwards - Columbia University, USA

Use of Peer-To-Peer Technology in Internet Access Networks and its Impacts
Peter Danielis and Dirk Timmermann - Universität Rostock, Germany

Reliable Framework for Unreliable RFID Devices
Nova Ahmed - Georgia Institute of Technology, USA

Improving Topological Mapping on NoCs
Rafael Tornero Gavilá and Juan Manuel Orduna - University of Valencia, Spain

Coping with Uncertainty in Scheduling Problems
Louis-Claude Canon - LaBRI-INRIA-Bordeaux, France

AuctionNet: Market Oriented Task Scheduling in Heterogeneous Distributed Environments
Han Zhao and Xiaolin Andy Li - Oklahoma State University, USA

Towards Dynamic Reconfigurable Load-balancing over Asymmetric Computing Platforms for Engineering Applications
Alecio Binotto and Dieter Fellner and Carlos E. Pereira - INF Federal University of Rio Grande do Sul, Brazil

Dynamic Fractional Resource Scheduling for Cluster Platforms
Mark Lee Stillwell - University of Hawaii, USA

Energy-aware Joint Scheduling of Tasks and Messages in Wireless Sensor Networks
Benazir Fateh and Manimaran Govindarasu - Iowa State University, USA

BlobSeer: Efficient Data Management for Data-Intensive Applications Distributed at Large-Scale
Bogdan Nicolae - INRIA-IRISA, France

Extendable Storage Framework for Reliable Clustered Storage Systems
Sumit Narayan and John Chandy - University of Connecticut, USA

The Effects on Branch Prediction when Utilizing Control Independence
Chris Michael - Louisiana State University, USA

High Performance Reconfigurable Multi-Processor-Based Computing on FPGAs
Diana Göhringer and Juergen Becker - Fraunhofer FOM, Germany

Note: In cases where multiple authors are listed, the first one is the PhD student and the other is the student's advisors.