

CALL FOR PAPERS

The Fifth International Workshop on Parallel Programming Models and Systems Software for High-End Computing (P2S2 2012)

September 10th, 2012

<http://www.mcs.anl.gov/events/workshops/p2s2/2012>

In conjunction with the 41st International Conference on Parallel Processing (ICPP'12)
Pittsburgh, USA

Program Co-chairs

Pavan Balaji, Argonne National Laboratory
Abhinav Vishnu, Pacific Northwest National Lab
Yong Chen, Texas Tech University

Publicity Chair

Qichang Lianq, University of Otago

Steering Committee

William Gropp, Univ. of Illinois at Urbana Champaign
Vijay Saraswat, IBM Research

Scope of the Workshop

The P2S2 workshop provides a forum for engineers and scientists in academia, industry and government to present their latest research findings in aspects of parallel programming models and systems software. We are soliciting contributions in areas including but not limited to:

- Systems software for high-end scientific and enterprise computing architectures
 - Communication sub-subsystems for high-end computing
 - High-performance File and storage systems
 - Fault-tolerance techniques and implementations
 - Efficient and high-performance virtualization and other management mechanisms
- Programming models and their high-performance implementations
 - MPI, Sockets, OpenMP, Global Arrays, X10, UPC, Chapel, Fortress and others
 - Hybrid Programming Models
- Tools for Management, Maintenance, Coordination and Synchronization
 - Debugging and Management libraries for large-scale systems
 - Software for Enterprise Data-centers using Modern Architectures
 - Job scheduling libraries
 - Toolkits for process and task coordination on modern platforms
- Performance evaluation, analysis and modeling of emerging computing platforms

Technical Program Committee

Ahmad Afsahi, Queen's University, Canada
George Almasi, IBM Research
Taisuke Boku, Tsukuba University, Japan
Darius Buntinas, Argonne National Laboratory
Surendra Byna, Lawrence Berkeley National Lab
Ron Brightwell, Sandia National Laboratory
Bronis de Supinski, Lawrence Livermore National Lab
Zhihui Du, Tsinghua University, China
Paul Hargrove, Lawrence Berkeley National Lab
Torsten Hoefler, Univ. of Illinois at Urbana-Champaign
Zhiyi Huang, University of Otago, New Zealand
Hai Jin, Huazhong Univ. of Sci. and Tech., China

Darren J. Kerbyson, Pacific Northwest National Lab
Zhiling Lan, Illinois Institute of Technology
Doug Lea, State University of New York at Oswego
Heshan Lin, Virginia Tech
Scott Pakin, Los Alamos National Laboratory
Sonia Sachs, Department of Energy
Guangming Tan, Chinese Academy of Sciences
Gabriel Tanase, IBM Research
Rajeev Thakur, Argonne National Laboratory
Vinod Tipparaju, Advanced Micro Devices (AMD)
Jesper Traff, University of Vienna, Austria
Yunquan Zhang, Chinese Academy of Sciences

Conference Timeline

Paper Submission Deadline	April 6 th , 2012
Author Notification	June 8 th , 2012
Final Manuscript Due	June 27 th , 2012
Workshop Date	Sept 10 th , 2012

Proceedings of the workshop will be published in CD Format and will be available at the workshop. The accepted papers will be included in and indexed by the IEEE digital library. See the P2S2 workshop website for instructions on electronic paper submission.

The best papers of P2S2-2012 will be included in a **Special Issue on Parallel Programming Models and Systems Software** of the **Parallel Computing (ParCo)**, edited by Yong Chen, Pavan Balaji, and Abhinav Vishnu. This special issue is dedicated for the papers accepted in the P2S2 workshop. The submission to this special issue is by invitation only, and the submission deadline is August 17th, 2012.