

CALL FOR PAPERS

The Eighth International Workshop on Parallel Programming Models and Systems Software for High-End Computing (P2S2 2015)

September 1st, 2015

<http://www.mcs.anl.gov/events/workshops/p2s2/2015>

In conjunction with the 44th International Conference on Parallel Processing (ICPP'15)
Beijing, China

Program Co-chairs

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

Publicity Chair

Jialin Liu, Texas Tech University

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 for high-end computing
- Programming models and their high-performance implementations
 - MPI, Sockets, OpenMP, Global Arrays, X10, UPC, CAF, Chapel, and others
 - Hybrid Programming Models
- Tools for Management, Maintenance, Coordination and Synchronization
 - Software for Enterprise Data-centers using Modern Architectures
 - Job scheduling libraries
 - Management libraries for large-scale system
 - Toolkits for process and task coordination on modern platforms
- Performance evaluation, analysis and modeling of emerging computing platforms

Technical Program Committee

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Workshop Timeline

Paper Submission Deadline April 30th, 2015 Anywhere on Earth (Extended Deadline)
Author Notification June 1st, 2015
Final Manuscript Due June 15th, 2015
Workshop Date September 1st, 2015

Proceedings of the workshop will be published in CD Format and will be available at the workshop. The accepted papers will be submitted to IEEE Xplore and CSDL. See the P2S2 workshop website for instructions on electronic paper submission.

Journal Special Issues: The P2S2-2015 workshop papers will be invited to extend the manuscripts to be considered for a **Special Issue on Parallel Programming Models and Systems Software for High-End Computing** of the **Journal of Supercomputing** 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 tentatively set as Nov. 2015.