18th International Symposium on
High Performance Distributed Computing

HPDC 2009, Munich, Germany, June 11-13, 2009

CALL FOR PAPERS – POSTERS – DEMOS – EXHIBITIONS - WORKSHOPS

The International Symposium on High Performance Distributed Computing (HPDC) is the premier forum for presenting the latest research findings on the design and use of parallel and distributed systems for high end computing, collaboration, data analysis, and other innovative applications. Its 18th installment will take place in Garching, near Munich, Germany, in June 11-13, 2009. Workshops co-located with HPDC will be held in June 9-10, 2009.

HPDC welcomes submissions covering all aspects of high-performance distributed computing, Grids, and global computing ensembles. New academic and scholarly research emphasizing empirical and reproducible results as well as investigative expositions of successful and innovative application and deployment efforts are particularly encouraged.

TOPICS OF INTEREST FOR HPDC 2009 include (but are not limited to):

HPDC architectures: HPC systems, Grids, Computing Clouds, SOA for HPDC

High end communications: Software/hardware/architecture and networking (incl. Terabit networks systems and services)

Data management and transport (incl. High performance I/O and file systems)

Software environments:
Programming frameworks
Language/compiler support
Performance analysis, modeling, simulation and prediction
Resource management, scheduling and load-balancing

Operating system technologies for high performance distributed computing (incl. Virtualization for HPDC systems)

Grid middleware
Security, configuration, policy, and management issues
Workflow management
Resource management, scheduling and load-balancing

Applications and algorithms
Parallel and distributed algorithms
Multicore algorithms and software implementations
Multimedia, tele-immersive, and collaborative applications

Fault tolerance, reliability and availability for HPDC applications

PAPERS:
Authors are invited to submit an abstract describing the contents of the paper including highlights and key characteristics before **December 31, 2008**. The abstracts are used as a base to pre-assign appropriate reviewers for the technical papers. Full papers must be submitted until **January 12, 2009**.

http://www.lrz.de/hpdc2009   hpdc2009@lrz.de

IMPORTANT DATES

Abstract Submission: Dec. 31, 2008
Paper Submission: Jan. 12, 2009
HPDC Workshops: Jun. 09-10, 2009
HPDC Symposium: Jun. 11-13, 2009

HPDC 2009 ORGANIZING COMMITTEE

General Chair
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Ludwig-Maximilians-Universität (LMU)
Leibniz Supercomputing Centre (LRZ)

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Leibniz Supercomputing Centre (LRZ)

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Technische Universität München (TUM)

Henri Casanova
University of Hawaii (UHM)

All papers will be rigorously reviewed by a distinguished international program committee, with a strong focus on the combination of rigorous scientific results and practical impact. In particular, research papers must clearly demonstrate research contribution and novelty; experience/applications/systems papers must clearly demonstrate impact and/or lessons learned and/or design choices.

The HPDC proceedings are expected to be published by ACM, and the plan is to distribute them at the conference.

POSTERS:
In addition to full papers, HPDC 2009 also allows the submission of posters. The conference especially encourages such submission from Ph.D. students so that they can present their early ideas to a larger audience.

DEMOS/EXHIBITS:
HPDC 2009 will feature a demo and exhibit session consisting of prototypes and technology artifacts demonstrating HPDC concepts, mechanisms and applications. Submissions to the demonstration and exhibit session are welcomed, both from industry and academia, demonstrating state-of-the-art applications of high-performance distributed computing, grids, and global computing ensembles. Demos of new scholarly research emphasizing empirical and reproducible results as well as exhibitions of investigative expositions of successful application and deployment efforts are particularly encouraged.

WORKSHOPS:
The HPDC 2009 Organizing Committee invites proposals for workshops to be held with the Eighteenth International Conference on High Performance Distributed Computing, which will be held in Garching near Munich on June 11-13, 2009. The dates for the workshops are June 09-10, 2009.

The **HPDC 2009 WEBPAGE** at **http://www.lrz.de/hpdc2009** provides details on Paper, Poster, Demo/Exhibit, and Workshop submission.

For any questions, please contact the HPCD 2009 team directly at **hpdc2009@lrz.de.**