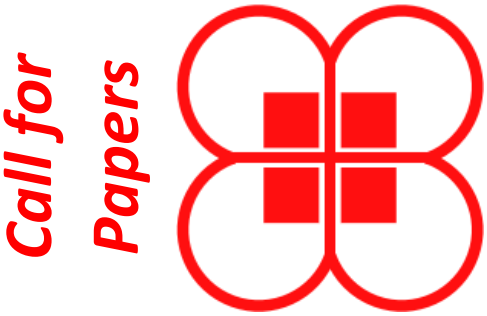

THE 20TH INTERNATIONAL ACM SYMPOSIUM ON HIGH-PERFORMANCE PARALLEL AND DISTRIBUTED COMPUTING

SAN JOSE, CALIFORNIA, JUNE 8-11, 2011

(PART OF THE ACM FEDERATED COMPUTING RESEARCH CONFERENCE)

http://www.hpdc.org/2011/

The ACM International Symposium on High-Performance Parallel and Distributed Computing (HPDC) is the premier conference for presenting the latest research on the design, implementation, evaluation, and use of parallel and distributed systems for high end computing. The 20th installment of HPDC will take place in San Jose, California, in the heart of Silicon Valley. This year, HPDC is affiliated with the ACM Federated Computing Research Conference, consisting of fifteen leading ACM conferences all in one week. HPDC will be held on June 9-11 (Thursday through Saturday) with affiliated workshops on June 8th (Wednesday).

Submissions are welcomed on all forms of high performance parallel and distributed computing, including but not limited to clusters, clouds, grids, utility computing, data-intensive computing, multicore and parallel computing. All papers will be reviewed by a distinguished program committee, with a strong preference for rigorous results obtained in operational parallel and distributed systems. All papers will be evaluated for correctness, originality, potential impact, quality of presentation, and interest and relevance to the conference.

In addition to traditional technical papers, we also invite **experience papers**. Such papers should present operational details of a production high end system or application, and draw out conclusions gained from operating the system or application. The evaluation of experience papers will place a greater weight on the real-world impact of the system and the value of conclusions to future system designs.

Topics of interest include, but are not limited to:

- Applications of parallel and distributed computing.
- Systems, networks, and architectures for high end computing.
- Parallel and multicore issues and opportunities.
- Virtualization of machines, networks, and storage.
- Programming languages and environments.
- I/O, file systems, and data management.
- Data intensive computing.
- Resource management, scheduling, and load-balancing.
- Performance modeling, simulation, and prediction.
- Fault tolerance, reliability and availability.
- Security, configuration, policy, and management issues.
- Models and use cases for utility, grid, and cloud computing.

Authors are invited to submit technical papers of at most 12 pages in PDF format, including all figures and references. Papers should be formatted in the ACM Proceedings Style and submitted via the conference web site. Accepted papers will appear in the conference proceedings, and will be incorporated into the ACM Digital Library.

Papers must be self-contained and provide the technical substance required for the program committee to evaluate the paper's contribution. Papers should thoughtfully address all related work, particularly work presented at previous HPDC events. Submitted papers must be original work that has not appeared in and is not under consideration for another conference or journal. See the ACM Prior Publication Policy for more details.

IMPORTANT DATES

Technical Papers Due:	17 January 2011
PAPER DEADLINE EXTENDED:	24 January 2011 (No further extensions!)
Author Notifications:	28 February 2011
Final Papers Due:	24 March 2011
Conference Dates:	8-11 June 2011

WORKSHOPS

Seven workshops affiliated with HPDC will be held on Wednesday, June 8th:

- ScienceCloud: The 2nd Workshop on Scientific Cloud Computing
- MapReduce: The 2nd International Workshop on MapReduce and its Applications
- VTDC: The 5th International Workshop on Virtual Technologies in Distributed Computing
- ECMLS: The 2nd International Emerging Computational Methods for the Life Sciences Workshop
- LSAP: The 3rd Workshop on Large-Scale System and Application Performance
- DIDC: The 4th International Workshop on Data-Intensive Distributed Computing
- 3DAPAS: The 1st Workshop on Dynamic Distributed Data-Intensive Applications, Programming Abstractions, and Systems