Call for Papers

HPDC'12

JUNE 18 – 22, 2012 • DELFT, THE NETHERLANDS

The 21st International ACM Symposium on
HIGH-PERFORMANCE PARALLEL and DISTRIBUTED COMPUTING

http://www.hpdc.org/2012/

The ACM International Symposium on High-Performance Parallel and Distributed Computing (HPDC) is the premier annual conference on the design, the implementation, the evaluation, and the use of parallel and distributed systems for high-end computing. HPDC'12 will take place in Delft, the Netherlands, a historical, picturesque city that is less than one hour away from Amsterdam-Schiphol airport. The conference will be held on June 20-22 (Wednesday to Friday), with affiliated workshops taking place on June 18-19 (Monday and Tuesday).

SCOPE AND TOPICS

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, and massively multicore systems. Submissions that explore solutions to estimate and reduce the energy footprint of such systems are particularly encouraged. All papers will be evaluated for their originality, potential impact, correctness, quality of presentation, appropriate presentation of related work, and relevance to the conference, with a strong preference for rigorous results obtained in operational parallel and distributed systems.

The topics of interest of the conference include, but are not limited to, the following, in the context of high-performance parallel and distributed computing:

- Systems, networks, and architectures for high-end computing
- Massively multicore systems
- Virtualization of machines, networks, and storage
- Programming languages and environments
- I/O, storage systems, and data management
- Resource management, energy and cost minimizations
- Performance modeling and analysis
- Fault tolerance, reliability, and availability
- Data-intensive computing
- Applications of parallel and distributed computing

PAPER SUBMISSION GUIDELINES

Authors are invited to submit technical papers of at most 12 pages in PDF format, including figures and references. Papers should be formatted in the ACM Proceedings Style and submitted via the conference web site. No changes to the margins, spacing, or font sizes as specified by the style file are allowed. Accepted papers will appear in the conference proceedings, and will be incorporated into the ACM Digital Library. A limited number of papers will be accepted as posters.

Papers must be self-contained and provide the technical substance required for the program committee to evaluate their contributions. Submitted papers must be original work that has not appeared in and is not under consideration for another conference or a journal. See the ACM Prior Publication Policy for more details.

IMPORTANT DATES

Workshop Proposals Due:	3 October 2011
Abstracts Due:	16 January 2012
Papers Due:	23 January 2012 (**No extensions!**)
Reviews Released to Authors:	8 March 2012
Author Rebuttals Due:	12 March 2012
Author Notifications:	19 March 2012
Final Papers Due:	16 April 2012
Conference Dates:	18-22 June 2012

CALL FOR WORKSHOP PROPOSALS

Workshops affiliated with HPDC will be held on June 18-19 (Monday and Tuesday). For more information on the workshops and for the complete Call for Workshop Proposals, see the workshops page on the conference website.

GENERAL CHAIR

Dick Epema, Delft University of Technology

PROGRAM CO-CHAIRS

Thilo Kielmann, Vrije Universiteit
Matei Ripeanu, University of British Columbia

POSTERS CHAIR

Ana Varbanescu, Delft Univ. of Technology and Vrije Univ.

WORKSHOPS CHAIR

Alexandru Iosup, Delft University of Technology

SPONSORSHIP CHAIR

Jack Lange, University of Pittsburgh

PUBLICITY CO-CHAIRS

Gabriel Antoniu, INRIA
Naoya Maruyama, Tokyo Institute of Technology
Ioan Raicu, Illinois Institute of Technology and Argonne NL

STEERING COMMITTEE

Henri Bal, Vrije Universiteit
Andrew A. Chien, University of Chicago
Peter Dinda, Northwestern University
Ian Foster, Univ. of Chicago and Argonne National Laboratory
Salim Hariri, University of Arizona
Dieter Kranzlmueller, Ludwig-Maximilians-Univ. Muenchen
Arthur "Barney" Maccabe, Oak Ridge National Laboratory
Satoshi Matsuoka, Tokyo Institute of Technology
Manish Parashar, Rutgers University
Karsten Schwan, Georgia Tech
Doug Thain, University of Notre Dame
Jon Weissman, University of Minnesota (Chair)

PROGRAM COMMITTEE

David Abramson, Monash University
Kento Aida, National Institute of Informatics
Gabriel Antoniu, INRIA
Rosa Badia, Barcelona Supercomputing Center
Henri Bal, Vrije Universiteit
Anne Benoit, ENS Lyon
John Bent, Los Alamos National Laboratory
Dick Bulterman, CWI
Kirk Cameron, VirginiaTech
Franck Cappello, INRIA and Univ. of Illinois at Urbana-Champ.
Abhishek Chandra, University of Minnesota
Andrew Chien, University of Chicago
Paolo Costa, Imperial College
Marco Danelutto, University of Pisa
Peter Dinda, Northwestern University
Gilles Fedak, INRIA
Renato Figueiredo, University of Florida
Clemens Grelck, University of Amsterdam
Dean Hildebrand, IBM Research
Fabrice Huet, INRIA
Adriana Iamnitchi, University of South Florida
Alexandru Iosup, Delft University of Technology
Emmanuel Jeannot, INRIA
Kate Keahey, Argonne National Laboratory
Charles Kilian, Purdue University
John Lange, University of Pittsburgh
Barney Maccabe, Oak Ridge National Laboratory
Carlos Maltzahn, University of California, Santa Cruz
Naoya Maruyama, Tokyo Institute of Technology
Satoshi Matsuoka, Tokyo Institute of Technology
Manish Parashar, Rutgers University
Beth Plale, Indiana University
Ioan Raicu, Illinois Institute of Technology and Argonne NL
Philip Rhodes, University of Mississippi
John Romein, ASTRON
Prasenjit Sarkar, IBM Research
Martin Swany, Indiana University
Michela Taufer, University of Delaware
Kenjiro Taura, University of Tokyo
Douglas Thain, University of Notre Dame
Cristian Ungureanu, NEC Research
Ana Varbanescu, Delft University of Technology