



HPDC'12

JUNE 18 – 22, 2012 • DELFT, THE NETHERLANDS

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



Panel on the Value of HPDC

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HPDC turns 21 years old

PAST HPDC EVENTS

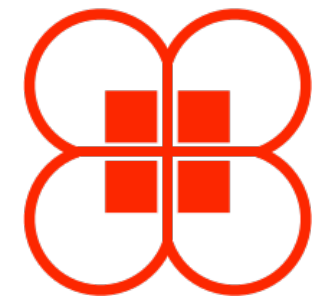
- [HPDC-20](#) 2011 San Jose, California
- [HPDC-19](#) 2010 Chicago, Illinois
- [HPDC-18](#) 2009 Munich, Germany
- [HPDC-17](#) 2008 Boston, Massachusetts
- [HPDC-16](#) 2007 Monterey Bay, California
- [HPDC-15](#) 2006 Paris, France
- [HPDC-14](#) 2005 Research Triangle Park, North Carolina
- [HPDC-13](#) 2004 Honolulu, Hawaii
- [HPDC-12](#) 2003 Seattle, Washington
- [HPDC-11](#) 2002 Edinburgh, Scotland
- [HPDC-10](#) 2001 San Francisco, California
- [HPDC-9](#) 2000 Pittsburgh, Pennsylvania
- [HPDC-8](#) 1999 Redondo Beach, California
- [HPDC-7](#) 1998 Chicago, Illinois
- [HPDC-6](#) 1997 Portland, Oregon
- [HPDC-5](#) 1996 Syracuse, New York
- [HPDC-4](#) 1995 Pentagon City, Virginia
- [HPDC-3](#) 1994 San Francisco, California
- HPDC-2 1993 Spokane, Washington
- HPDC-1 1992 Syracuse, New York



Best Papers of HPDC (1992-2012)

The process: the entire HPDC community was invited to nominate best papers over the past 20 years and provide rationale for selecting such papers such as impact factor, scientific novelty, impact on practice, and so forth. Over 40 papers were identified. A small committee then further evaluated and scored these 40 papers and then selected 22 from this list.

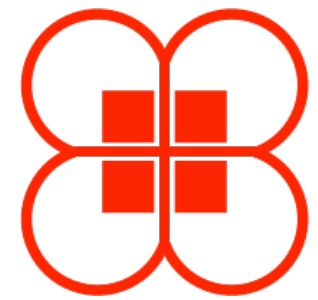
ID	TITLE	AUTHORS	YEAR	LINK
1	Forecasting Network Performance To Support Dynamic Scheduling Using The Network Weather Service	Richard Wolski	1997	IEEE
2	Autopilot: Adaptive Control Of Distributed Applications	Randy L. Ribler, Jeffrey S. Vetter, Huseyin Simitci, Daniel A. Reed	1998	IEEE
3	Condor-g: A Computation Management Agent For Multi-institutional Grids	James Frey, Todd Tannenbaum, Miron Livny, Ian T. Foster, Steven Tuecke	2001	IEEE
4	Dynamic Virtual Clusters In A Grid Site Manager	Jeffrey S. Chase, David E. Irwin, Laura E. Grit, Justin D. Moore, Sara Sprenkle	2003	IEEE
5	Grid Information Services For Distributed Resource Sharing	Karl Czajkowski, Carl Kesselman, Steven Fitzgerald, Ian T. Foster	2001	IEEE
6	Nimrod: A Tool For Performing Parameterised Simulations Using Distributed Workstations	David Abramson, Rok Susic, Jonathan Giddy, B. Hall	1995	ACM
7	Scheduling From The Perspective Of The Application	Francine Berman and Richard Wolski	1996	IEEE
8	Application Experiences With The Globus Toolkit	Sharon Brunett, Karl Czajkowski, Steven Fitzgerald, Ian Foster, Andrew Johnson, Carl Kesselman, Jason Leigh, Steven Tuecke	1998	IEEE
9	Matchmaking: Distributed Resource Management For High Throughput Computing	Rajesh Raman, Miron Livny, Marvin H. Solomon	1998	IEEE
10	Moon: Mapreduce On Opportunistic Environments	Heshan Lin, Xaisong Ma, Jeremy Archuleta, Wu-chun Feng, Mark Gardner, Zhe Zhang	2010	IEEE
11	The Cactus Code: A Problem Solving Environment For The Grid	G Allen, W Benger, T Goodale, HC Hege, G	2000	IEEE
12	The Core Legion Object Model	Michael J. Lewis, Andrew S. Grimshaw	1996	IEEE
13	Toward A Common Component Architecture For High-performance Scientific Computing	Rob Armstrong, Dennis Gannon, Al Geist, Katarzyna Keahey, Scott Kohn, Lois McInnes, Steve Parker, Brent Smolinski	1999	IEEE
14	Wow: Self-organizing Wide Area Overlay Networks Of Virtual Workstations	Arijit Ganguly, Abhishek Agrawal, P. Boykin, Renato Figueiredo	2006	IEEE
15	An Empirical Study Of The Multiscale Predictability Of Network Traffic	Y. Qiao, J. Skicewicz, P. Dinda	2004	IEEE
16	Webos: Operating System Services For Wide Area Applications	Amin Vahdat, Thomas E. Anderson, Michael Dahlin, E. Belani, David E. Culler, P. Eastham	1998	IEEE
17	An Enabling Framework For Master-worker Applications On The Computational Grid	Jean-pierre Goux, Sanjeev Kulkarni, Jeff Linderorth, Michael Yoder	2000	IEEE
18	An Online Credential Repository For The Grid: Myproxy	Jason Novotny, Steven Tuecke, Von Welch	2001	IEEE
19	Decoupling Computation And Data Scheduling In Distributed Data-intensive Applications	Kavitha Ranganathan, Ian Foster	2002	IEEE
20	Planetp: Using Gossiping To Build Content Addressable Peer-to-peer Information Sharing Communities	Francisco Matias Cuenca-acuna, Christopher Peery, Richard P. Martin, Thu D. Nguyen	2003	IEEE
21	Resource Co-allocation In Computational Grids	Karl Czajkowski, Ian T. Foster, Carl Kesselman	1999	IEEE
22	Security For Grid Services	Von Welch, Frank Siebenlist, Ian T. Foster, John Bresnahan, Karl Czajkowski, Jarek Gawor, Carl Kesselman, Sam Meder, Laura Pearlman, Steven Tuecke	2003	IEEE



Our panel

- Renato Figueiredo
 - University of Florida
- Ian Foster
 - Univ. of Chicago & Argonne National Lab
- Rob van Nieuwpoort
 - Netherlands eScience Center
- Jon Weissman
 - University of Minnesota





Questions

- What is the impact of the research of the HPDC community?
 - Does industry read our papers & apply the ideas?
 - Why is there little attendance from industry?
- Do we have the right research topics & motivation?
- Do we have the right mix of design, modeling, analysis, and prototype development?
- Is our main "product" our research or our graduates (who go to industry & apply the skills we taught them)?