



18TH INTERNATIONAL CONFERENCE ON HIGH PERFORMANCE COMPUTING

December 19-22, 2011 | Bengaluru, INDIA

CALL FOR PAPERS

The 18th annual IEEE International Conference on High Performance Computing (HiPC 2011) will be held in Bengaluru, India, during December 19-22, 2011. It will serve as a forum for researchers from around the world to present their current research efforts and findings, and will act as a venue for stimulating discussions and for highlighting high performance computing (HPC) activities in Asia. The conference has a history of attracting participation from reputed researchers from all over the world.

HiPC 2011 will focus on the design and analysis of high performance computing and networking systems and their scientific, engineering, and commercial applications. In addition to technical sessions consisting of contributed papers, the conference will include invited presentations, a student research symposium, tutorials, and vendor presentations. Additional information about the HiPC 2010 conference and HiPC series of meetings is available at <http://www.hipc.org>.

Authors are invited to submit original unpublished manuscripts that demonstrate current research in all areas of high performance computing including design and analysis of parallel and distributed systems, embedded systems, and their applications in scientific, engineering, and commercial areas.

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Topics of interest include but are not limited to:

- › High-Performance Computing
- › Parallel and Distributed Algorithms
- › Parallel Languages and Programming Environments
- › Load Balancing, Scheduling and Resource Management
- › Resilient/Fault-Tolerant Algorithms and Systems
- › Scientific/Engineering/Commercial Applications and Workloads
- › Emerging Applications such as Biotechnology and Nanotechnology
- › Cluster, Cloud, and Grid Cloud Computing
- › Peer-to-peer Algorithms and Networks
- › Heterogeneous Computing
- › Wireless and Mobile Computing
- › Communication/Sensor Networks and Embedded Applications
- › Interconnection Networks and Architectures
- › Scalable Servers and Systems
- › High Performance/Scalable Storage Systems
- › Power-Efficient and Reconfigurable Architectures
- › Compiler Technologies for High-Performance Computing
- › Software Support and Advanced Micro-architecture Techniques
- › Operating Systems for Scalable High-Performance Computing

One or more best paper awards will be given for outstanding contributed papers. Further details about call for student research symposium, workshops, tutorials, and exhibits, as well as submission guidelines are available at the conference website <http://www.hipc.org>.

IMPORTANT DATES

- April 04, 2011** › Conference Paper Submission Begins
- May 16, 2011** › Conference Paper Submission Ends
- May 16, 2011** › Workshop Proposals Due
- July 18, 2011** › Notification of Acceptance/Rejection
- Aug 18, 2011** › Camera-Ready Paper Submission
- Sep 16, 2011** › Student Symposium Submissions Due
- Oct 21, 2011** › Student Symposium Accept/Reject Decisions
- Nov 14, 2011** › Early Registration Deadline

Co-Sponsored by

IEEE Computer Society Technical Committee on Parallel Processing (TCPP) - Pending • HiPC Education Trust

In Association with

ACM SIGARCH - Pending

