

CALL FOR PARTICIPATION

**13th IEEE International Conference on
High Performance Computing
(HiPC 2006)**

**December 18-21, 2006
Bangalore, India**

<http://www.hipc.org>

Submission Deadline: May 12, 2006

CALL FOR PAPERS

The 13th annual IEEE International Conference on High Performance Computing (HiPC 2006) will be held in Bangalore, India, during December 18-21, 2006. It will serve as a forum to present the current work by researchers from around the world, and act as a venue to provide stimulating discussions and highlight high performance computing (HPC) activities in Asia. The conference has a history of attracting participation from reputed researchers from all over the world. In addition to technical sessions consisting of contributed papers, the conference will include invited presentations, a poster session, tutorials, and vendor presentations. Further information about HiPC 2006 and the HiPC series of meetings is available on the conference website at <http://www.hipc.org>.

HiPC 2006 will focus on all aspects of high performance computing. Topics of interest include but are not limited to:

- Parallel and Distributed Algorithms
- Languages and Programming Environments
- Load Balancing, Scheduling and Resource Management
- Fault-Tolerant Algorithms and Systems
- Scientific/Engineering/Commercial Applications and Workloads
- Cluster and Grid Computing
- Peer-to-peer Algorithms and Networks
- Heterogeneous Computing
- Wireless and Mobile Computing
- Communication/Sensor Networks and Embedded Applications
- Emerging Computer Architectures
- Scalable Servers and Systems
- Power-Efficient and Reconfigurable Architectures
- Compiler Technologies for High-Performance Computing
- Operating Systems for Scalable High-Performance Computing
- Performance Evaluation and Analysis

Authors are invited to submit **original unpublished** manuscripts that demonstrate current research in all areas of high performance computing. The proceedings will be published by Springer-Verlag, Lecture Notes in Computer Science, and will be available at the conference.

Best paper awards, sponsored by Infosys, will be given for outstanding contributed papers in two areas: (a) Algorithms and Applications, and (b) Systems. Further details about the call for posters, workshops, tutorials, and exhibits as well as submission guidelines will be available at <http://www.hipc.org>.

CO-SPONSORED BY:

- IEEE Computer Society Technical Committee on Parallel Processing (TCPP)
- ACM SIGARCH
- European Association for Theoretical Computer Science
- IFIP Working Group on Concurrent Systems
- National Association of Software and Service Companies (NASSCOM)
- Manufacturers' Association for Information Technology (MAIT)

HELD IN COOPERATION WITH:

- Indian Institutes of Technology
- Institute of Technology, Banaras Hindu University, Varanasi
- Software Technology Parks of India
- Tata Institute of Fundamental Research, India

VENUE AND MEETING INFORMATION

Bangalore, a bustling metropolis, is the fifth largest city in India and the capital of the state of Karnataka. It is the main center of the Information Technology (IT) industry in India; almost every Indian and multi-national IT company has a presence here. Bangalore is home to the Indian Institute of Science (IISc), a premier research institute, and many other aerospace and high technology industries including the Centre for Development of Advanced Computing (C-DAC). Karnataka is the home to many ancient Indian architectural marvels, wildlife sanctuaries, rain forests (the Western Ghats), pristine beaches, and rich cultural traditions.

The advance program will be available in July 2006. Check the conference website at <http://www.hipc.org> for updated information.

IMPORTANT DATES

April	05, 2006	Paper Submission Begins
May	12, 2006	Paper Submission Ends
May	12, 2006	Workshop Proposals Due
May	19, 2006	Tutorial Proposals Due
July	14, 2006	Notification of Acceptance/Rejection
August	18, 2006	Camera-Ready Paper Submission
October	06, 2006	Poster/Presentation Summary Due
October	25, 2006	Notification to Authors for Posters
November	07, 2006	Last Day for Advance Registration

MANUSCRIPT GUIDELINES

Manuscript submission will start on April 5, 2006. Submission procedures will then be available over the Web at <http://www.hipc.org>. Submitted manuscripts should be structured as technical papers and may not exceed 15 double-spaced pages of text using 12 point size font on 8.5 x 11 inch pages with margins of at least 1 inch on each of the four sides. References, figures, tables, etc. may be included in addition to the fifteen pages of text. The official language of the meeting is English. Electronic submissions must be in the form of a readable PDF file. Authors should submit a correct PDF file of their paper to be considered and make sure that the file will print on a printer that uses 8.5 x 11 inch size (letter size) paper. Submitted papers may not have appeared in or be under consideration for another conference or a journal.

Manuscripts must be received by May 12, 2006. Submissions received after the due date, exceeding length limit, or not appropriately structured may not be considered. All manuscripts will be reviewed and will be judged on correctness, originality, technical strength, significance, quality of presentation, and interest and relevance to the conference attendees. Notification of review decisions will be mailed by July 14, 2006. Camera-ready papers are due by August 18, 2006. Authors may contact the Program Chair for further information or clarification.

Program Chair: Professor Yves Robert
Ecole Normale Superieure de Lyon (ENS Lyon), France
Email: Yves.Robert@ens-lyon.fr

WORKSHOPS

Proposals are solicited for workshops to be held in conjunction with the main conference. Interested individuals should submit a proposal by May 12, 2006 to the Workshops Chair. Additional details and submission guidelines will be available at <http://www.hipc.org>.

Workshops Chair: Manimaran Govindarasu
Iowa State University, USA
Email: gmani@iastate.edu

POSTER/PRESENTATION SESSION

In addition to the contributed papers session, a plenary poster/presentation session emphasizing novel applications of high performance computing is planned. It will offer brief presentation time for each poster and will be followed by a "walk-up and talk" setting. To be considered, send a 5 page summary of your work to the Poster/Presentation Chair by October 06, 2006. For additional details, contact the Poster/Presentation Chair.

Poster/Presentation Chair: Rajeev Thakur
Argonne National Laboratory, USA
Email: thakur@mcs.anl.gov

TUTORIALS

Proposals are solicited for tutorials to be held at the meeting. Interested individuals/groups should submit a proposal by May 19, 2006 to the Tutorials Chair. The proposal should include a brief description of the intended audience, a lecture outline, and a vita for each lecturer. For additional details, contact the Tutorials Chair.

Tutorials Chair: Rama K. Govindaraju
IBM, USA
Email: ramag@us.ibm.com

EXHIBITS/VENDOR PRESENTATIONS

Companies and R&D laboratories are encouraged to present their exhibits at the meeting. Additionally, a full day of vendor presentations is planned. Further details can be obtained at <http://www.hipc.org> or by contacting the Industry Liaison co-chairs.

Industry Liaison Co-Chairs:
Vijay Mann
IBM India Research Lab, India
Email: vijamann@in.ibm.com

Raghuram Tupuri
Advanced Micro Devices (AMD), India
Email: raghuram.tupuri@amd.com

TRAVEL SCHOLARSHIPS FOR STUDENTS FROM INDIA

HiPC 2006 will be awarding travel scholarships to students from Indian Engineering Colleges to encourage them to attend the conference. This merit-based scholarship will cover their travel and accommodation expenses. The last date of application is October 31, 2006. For further details, contact the Scholarships Co-Chairs.

Scholarships Co-Chairs:
Anu G. Bourgeois
Georgia State University, USA
Email: scholchair@hipc.org

Madhusudhan Govindaraju
SUNY Binghamton, USA

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