

## HiPC 2002 ORGANIZATION

### GENERAL CO-CHAIRS

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Uday Shukla, IBM India

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### LOCAL ARRANGEMENTS CHAIR

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Jose Nelson Amaral, University of Alberta

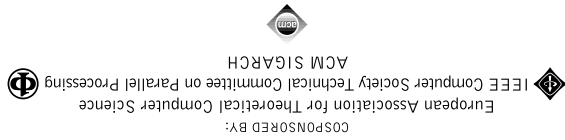
### STEERING COMMITTEE

Jose Duato, Universidad Politecnica de Valencia, Spain  
Viktor K. Prasanna, University of Southern California, Chair  
N. Radhakrishnan, US Army Research Lab  
Sartaj Sahni, University of Florida  
Assaf Schuster, Technion, Israel Institute of Technology, Israel

## MEETING INFORMATION

The advance program will be available in July 2002. Check [www.hipc.org](http://www.hipc.org) for updated information.

## 9th International Conference on High Performance Computing (HiPC 2002) December 18-21, 2002 • Bangalore, India • [www.hipc.org](http://www.hipc.org)



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# HiPC 2002

December 18-21, 2002  
Bangalore, India

9th INTERNATIONAL CONFERENCE ON HIGH  
PERFORMANCE COMPUTING (HiPC 2002)

CALL FOR PARTICIPATION

# HiPC

High Performance Computing 2002  
University of Southern California, EEB 200C  
Los Angeles, CA 90089-2562, USA

# CALL FOR PARTICIPATION

## 9th International Conference on High Performance Computing (HiPC 2002) December 18-21, 2002 • Bangalore, India • [www.hipc.org](http://www.hipc.org)

### C O S P O N S O R E D B Y

IEEE Computer Society Technical Committee on Parallel Processing  
ACM SIGARCH  
European Association for Theoretical Computer Science

### H E L D I N C O O P E R A T I O N W I T H

Indian Institutes of Technology  
Software Technology Parks of India  
Tata Institute of Fundamental Research, India  
Centre for Artificial Intelligence Research(CAIR), India  
CSIR Centre for Mathematical Modeling and Computer Simulation, India

### H I P C 2 0 0 2

HiPC 2002 will be held in Bangalore, the Silicon Valley of India, during December 18-21, 2002. It will serve as a forum to present current work by researchers from around the world as well as highlight activities in Asia in the high performance computing area. The conference has a history of attracting participation from reputed researchers from all over the world. The seventh meeting held in Bangalore, India, in 2000 had 46 contributed papers that were selected from 127 submissions from 12 countries, and additional special sessions. Approximately 350 participants attended the meeting. The conference had tutorials on cutting edge topics in high performance computing and related areas by leading researchers from academia and industry. The 8th HiPC Conference (HiPC 2001) held in Hyderabad, India, in December 2001, had 29 contributed papers that were selected from 108 submissions from 18 countries and approximately 220 participants attended the meeting. Please refer to the website <http://www.hipc.org> for more information on previous meetings.

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 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. Karnataka is home of many ancient Indian architectural marvels, wildlife sanctuaries, rain forests (the Western Ghats), pristine beaches, and rich and hoary cultural traditions.

HiPC 2002 will emphasize the design and analysis of high performance computing and networking systems and their scientific, engineering, and commercial applications. In addition to technical sessions of contributed paper presentations, the conference will offer invited presentations, a poster/presentation session, tutorials, and vendor presentations.

HPC Asia 2002 will also be held in Bangalore during December 16-19, 2002, and will be co-located with HiPC 2002. This will offer additional opportunities for participants from one meeting to attend the other at a nominal cost. HPC Asia 2002 will be organized by the Centre for Development of Advanced Computing (CDAC) and the Advanced Computing and Communications Society (ACS). The exhibits will be open to HiPC 2002 participants at no extra cost. HPC Asia 2002 details can be retrieved on the web at <http://www.cdacindia.com/hpcasia2002>.

### G E N E R A L C O - C H A I R S

Viktor K. Prasanna, University of Southern California, Internet: [prasanna@ganges.usc.edu](mailto:prasanna@ganges.usc.edu)

Uday Shukla, IBM India, Internet: [ushukla@in.ibm.com](mailto:ushukla@in.ibm.com)

### V I C E G E N E R A L C H A I R

David A. Bader, University of New Mexico, Internet: [dbader@ece.unm.edu](mailto:dbader@ece.unm.edu)

### C A L L F O R P A P E R S

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. Topics of interest include but are not limited to:

- Parallel Algorithms
- Parallel Architectures
- Parallel Languages & Compilers
- Distributed Systems
- Programming Environments
- Memory Systems
- Multimedia and High Speed Networks
- Wireless Mobile Computing
- Computational Biology
- Scientific Computation
- Visualization
- Network and Cluster-Based Computing
- Signal & Image Processing Systems
- Supercomputing Applications
- Internet and WWW-based Computing
- Scalable Servers
- Embedded Systems
- P2P Computing

To submit an original research paper, send your complete manuscript (not to exceed 15 double-spaced pages of text using 12 point size type on 8.5" x 11" pages) to the Program Chair. References, figures, tables, etc. may be included in addition to the fifteen pages of text. Authors should submit a correct PostScript (level 2) file of their paper to be considered and make sure that the PostScript file will print on a PostScript printer that uses 8.5" x 11" size (letter size) paper. Manuscript submission procedures are available over the Web at <http://www.hipc.org>. Electronic submissions must be in the form of a readable postscript file. Authors unable to submit over the web can send an e-mail message to [hipc2002@cise.ufl.edu](mailto:hipc2002@cise.ufl.edu) containing the following header information in ASCII form: title, author name(s), abstract, postal address, e-mail address, and telephone and fax numbers. The header (in ASCII) should be followed by the PostScript version of the complete manuscript (including title, author names, affiliation, and abstract).

Hard copy submissions are permitted and, like electronic submissions, must be received by May 3, 2002. Please send six copies of the manuscript to the Program Chair. Fax submissions will not be considered. Manuscripts must be received by May 3, 2002. All manuscripts will be reviewed. Submissions received after the due date or exceeding the length limit may not be considered. Notification of review decisions will be mailed by July 2, 2002. Camera-ready papers are due August 15, 2002. Proceedings will be available at the conference and also on the Web after the conference.

### P R O G R A M C H A I R

Sartaj Sahni, University of Florida  
CISE Department, CSE 301  
University of Florida  
Gainesville, FL 32611, USA  
Internet: [sahni@cise.ufl.edu](mailto:sahni@cise.ufl.edu)

### P R O G R A M V I C E C H A I R S

Algorithms: Oscar Ibarra, University of California, Santa Barbara  
Applications: Vipin Kumar, AHPARC-University of Minnesota  
Architecture: Michel Cosnard, INRIA, France  
Communication Networks: Mani Srivastava, University of California, Los Angeles  
Systems Software: Francis Lau, Hong Kong University

### P R O G R A M C O M M I T T E E

**Algorithms:** Cevdet Aykanat, Bilkent University  
Yookun Cho, Seoul National University  
Omer Egecioglu, University of California, Santa Barbara  
Tsan-sheng Hsu, Academia Sinica  
Myung Kim, Ewha Womans University  
Koji Nakano, Japan Advanced Institute of Science and Technology  
Sandeep Sen, Indian Institute of Technology, Delhi  
Bhabani Sinha, Indian Statistical Institute  
Meera Sitharam, University of Florida  
Hal Sudborough, University of Texas at Dallas  
Albert Zomaya, University of Western Australia,

**Applications:** Rupak Biswas, NASA Ames Research Center  
Amitava Datta, University of Western Australia  
Timothy Davis, University of Florida  
Ratan Ghosh, Indian Institute of Technology, Kanpur  
Anshul Gupta, IBM T. J. Watson Research Center  
Hillol Kargupta, University of Maryland at Baltimore County  
Piyush Mehrotra, NASA Ames Research Center  
Raju Namburu, Army Research Laboratory, Maryland  
D.K. Panda, Ohio State University  
Srinivasan Parthasarathy, Ohio State University  
P. Sadayappan, Ohio State University  
Vivek Sarin, Texas A&M University  
Jon Weissman, University of Minnesota

**Architecture:** Makoto Amamyia, Kyushu University  
Franck Cappello, Paris-Sud XI University  
Kemal Ebcioglu, IBM TJ Watson Research Center  
Michael Frank, University of Florida  
Tony Hey, Engineering & Physical Sciences Research Council  
Nectarios Koziris, National Technical University of Athens  
David Nassimi, New Jersey Institute of Technology  
Siva Ram Murthy, Indian Institute of Technology, Madras  
Mateo Valero, Universidad Politecnica de Catalunya  
Xiaodong Zhang, National Science Foundation

**Communication Networks:** Prathima Agrawal, Telcordia Technologies  
B.R. Badrinath, Rutgers University  
Sajal Das, University of Texas at Arlington  
Ramesh Govindan, ICSI/ACIRI Berkeley  
Sumi Helal, University of Florida  
Abhay Karandikar, Indian Institute of Technology, Bombay  
Steve Olariu, Old Dominion University  
Michael Palis, Rutgers University at Camden  
Parmesh Ramanathan, University of Wisconsin, Madison  
Ramesh Rao, University of California San Diego  
Krishna Sivalingam, Washington State University

**Systems Software:** Ishfaq Ahmad, Hong Kong University of Science and Technology  
Hamid Arabnia, University of Georgia  
Jiannong Cao, Hong Kong Polytechnic University  
Elizier Dekel, IBM Research Laboratory, Haifa  
R. Govindarajan, Indian Institute of Science  
Weijia Jia, City University of Hong Kong  
Rajib Mall, Indian Institute of Technology, Kharagpur  
Kihong Park, Purdue University  
Krithi Ramamritham, Indian Institute of Technology, Bombay  
Yu-chee Tseng, National Chiao Tung University  
Cheng-zhong Xu, Wayne State University

### B E S T P A P E R A W A R D S

These awards, sponsored by Infosys, will be awarded to outstanding contributed papers in the areas of Systems and Algorithms and Applications.

#### A W A R D S C H A I R

Arvind, MIT

### W O R K S H O P S

Proposals are solicited for workshops to be held in conjunction with the main conference. Interested individuals should submit a proposal by May 6, 2002 to the Workshops Chair. For additional details and submission procedure visit <http://www.hipc.org/hipc2002>.

#### W O R K S H O P S C H A I R

C. P. Ravikumar, Texas Instruments India, Internet: [ravikumar@india.ti.com](mailto:ravikumar@india.ti.com)

### P O S T E R / P R E S E N T A T I O N S E S S I O N

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 any one of the Poster/Presentation Co-Chairs by October 2, 2002. For additional details contact the Poster/Presentation Co-Chairs.

#### P O S T E R / P R E S E N T A T I O N C O - C H A I R S

Paul Roe, Queensland University of Technology, Internet: [p.roe@qut.edu.au](mailto:p.roe@qut.edu.au)

Rajkumar Buyya, The University of Melbourne, Internet: [rajkumar@buyya.com](mailto:rajkumar@buyya.com)

### T U T O R I A L S

Proposals are solicited for tutorials to be held at the meeting. Interested individuals should submit a proposal by May 15, 2002 to the Tutorials Chair. The proposal should include a brief description of the intended audience, a lecture outline, and a vita for each lecturer.

#### T U T O R I A L S C H A I R

Srinivas Aluru, Iowa State University, Internet: [aluru@iastate.edu](mailto:aluru@iastate.edu)

### I M P O R T A N T D A T E S

May 3, 2002	Conference Paper Due
May 6, 2002	Workshop Proposal Due
May 15, 2002	Tutorial Proposal Due
July 2, 2002	Notification of Acceptance/Rejection
August 15, 2002	Camera-Ready Paper Due
October 2, 2002	Poster/Presentation Summary Due

