



हाइपीसी HiPC

20TH INTERNATIONAL CONFERENCE ON HIGH PERFORMANCE COMPUTING (HiPC 2013)

December 18-21, 2013 | Bengaluru (Bangalore), INDIA | www.hipc.org



The conference venue for HiPC 2013 has been relocated to the Park Plaza Bengaluru Hotel in Bengaluru (Bangalore). The HiPC Website at www.hipc.org gives details for this change and also will provide details for booking accommodations at the Park Plaza.

PROGRAM HIGHLIGHTS

The 20th IEEE International Conference on High Performance Computing (HiPC 2013), to be held in Bengaluru (Bangalore), India, December 18 - 21, 2013, will serve as a forum for presenting current work by researchers from around the world as well as to highlight activities in Asia in the area of high performance computing.

KEYNOTE SPEAKERS

➤ **IVO BOLSENS**

Senior Vice President & Chief Technology Officer, Xilinx Research Laboratories (XRL)

THE ALL PROGRAMMABLE SOC FPGA AT THE HEART OF PROGRAMMABLE SYSTEMS

➤ **IAN BUCK**

General Manager, GPU Computing Software, NVIDIA

GPU COMPUTING, PAST, PRESENT, AND FUTURE

➤ **ROBERT J. HARRISON**

Institute for Advanced Computational Science, Stony Brook University and Center for Scientific Computing, Brookhaven National Laboratory

BIG SCIENCE, BIG DATA, BIG COMPUTE

CONTRIBUTED PAPERS

The technical program will consist of 49 contributed papers chosen from 196 submissions from all over the world. The papers will be presented in a single-track format covering important and timely topics such as performance consistency, virtualization, fault tolerance and power management for large scale HPC and Cloud infrastructures, routing, and programming support, shared memory abstractions and applications for multi-core and GPU systems.

STUDENT RESEARCH SYMPOSIUM

The conference will feature the 6th Student Research Symposium on High Performance Computing on December 18 aimed at stimulating and fostering student research and providing an international forum to highlight student research accomplishments. The one-day symposium will feature brief presentations by student authors on their research and a poster exhibit, and will be followed by a reception and industry-student mixer.

WORKSHOPS

As part of the conference, HiPC will host 2 workshops on Wednesday, December 18th.

- International Workshop on Cloud Computing Applications (IWCA)
- Workshop on Performance Engineering and Applications (WPEA)

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INDUSTRY, RESEARCH AND USERS SYMPOSIUM

The symposium will bring together practitioners and users including both commercial and non-commercial users of HPC to provide a forum for presenting the state-of-the-art in HPC platforms and technologies, for discussing best practices and for exchanging experiences. To be held on December 19th and 20th, it will feature two sessions with presentations from international experts, focusing on the following topics:

- > HPC and Big Data Challenges
- > HPC Challenges in CFD in India

INDUSTRY/RESEARCH EXHIBITS

This two-day exhibition session, to be held on December 19th and 20th, will consist of exhibits and presentations from vendor companies and R&D laboratories.

CONFERENCE REGISTRATION

Conference registration includes attendance at all workshops and technical sessions and a copy of the HiPC 2013 proceedings. The early registration deadline for discounted fees is November 14, 2013. International attendees are advised to start the process for their registration and application for a travel visa as soon as possible. Visit the conference website for further details.

INFORMATION FOR INDIA-BASED PARTICIPANTS

Registration at reduced rates is made possible for India-based faculty, students, and researchers through sponsorships from India based industries and organizations. Travel scholarships for India-based students are available on a merit basis to promote HPC research in India.

SPONSORSHIP OPPORTUNITIES

The HiPC conference is annually sponsored by several Indian and international organizations, institutions, and companies. Please visit sponsorship opportunities for more details and the sponsors' page for the list of current sponsors at industry@hipc.org.

For further details, visit the conference website at www.hipc.org.

CONFERENCE ORGANIZATION

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RAMA GOVINDARAJU, Google, USA

PROGRAM CHAIR

YVES ROBERT, ENS Lyon, France

STEERING COMMITTEE CHAIR

VIKTOR K. PRASANNA
Univ. of Southern California, USA

PROGRAM VICE CHAIRS

Algorithms: DENIS TRYSTRAM, INRIA GRENOBLE, France

Applications: XIAOYE S. LI, Lawrence Berkeley National Laboratory, USA

Architecture: MITSUHISA SATO, University of Tsukuba, Japan

System Software: THOMAS HÉRAULT, University of Tennessee, Knoxville, USA

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