## HiPC 2016



December 19-22, 2016 | Hyderabad, India www.hipc.org

# **HiPC 2016 CALL FOR PAPERS**

Full information detailing what/where to submit is available on the HiPC Website at www.hipc.org as well as notices and plans for other conference events including workshops and programs for students and industry.

Authors are invited to submit original unpublished research manuscripts that demonstrate current research in all areas of high performance computing, data, and analytics. (Note that extended deadlines are firm deadlines! no exceptions will be made.)

Topics include (but are not limited to):

- ! Algorithms for Mobile and Wireless Networks
- ! Big Data Processing and the 4 V!s (Volume, Variety, Velocity, Veracity)
- ! Big Data and Data Analytics Systems and Software Architectures
- ! Compiler Technologies for High-Performance Computing
- ! Concurrent Algorithms such as Concurrent Data Structures
- ! Cross-Cutting Methods: Co-Design of Algorithms, Software, and Architectures
- ! Dealing with Uncertainties, Resilient/Fault-Tolerant Algorithms and Systems
- ! Emerging Applications such as Biotechnology, Nanotechnology
- ! Exascale Computing, Cloud Platforms, Data Center Architectures and Services
- ! High Performance/Scalable Storage Systems
- ! Hybrid Parallel Programming with GPUs and Accelerators
- ! Interconnection Networks and Architectures
- ! Large Scale Recommendation Systems, Graph Analytics & Computing Challenges
- ! Load Balancing, Scheduling and Resource Management
- ! Operating Systems for Scalable High-Performance Computing
- ! Parallel Languages, Programming Environments, and Performance Assessment
- ! Power-Efficient and Reconfigurable Architectures
- ! Quantum and Bio-Inspired Algorithms and Architectures
- ! Scientific/Engineering/Commercial Applications and Workloads
- ! Software Support and Advanced Micro-architecture Techniques
- ! Streaming Algorithms
- ! Visualization

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### HIPC 2016 WORKSHOPS ANNOUNCED

- > Foundations of Big Data Computing
- > Computational Fluid Dynamics (CFD)
- > HPC and Big Data in Molecular Engineering
- > Software Composable Infrastructure

See hipc.org for dates and details.

# **HiPC 2016 IMPORTANT DATES**

June 1	Abstracts Due—EXTENDED
June 10	Abstracts Due
<del>June 5</del>	Paper Due—EXTENDED
June 15	Paper Submission Deadline
August 15	Reviews for Rebuttal
August 20	Rebuttals Due
September 6	Author Notification
October 3	Camera Ready Submission

Co-Sponsored by IEEE Computer Society Technical Committee on Parallel Processing (TCPP) & HiPC Education Trust

