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HPCS 2017 : High Performance Computing Systems and Applications

Conference Series : High Performance Computing Systems and Applications

Link: http://hpcs2017.cisedu.info/

When	Jul 17, 2017 - Jul 21, 2017
Where	Genoa, Italy
Submission Deadline	Mar 24, 2017
Notification Due	Apr 24, 2017
Final Version Due	May 11, 2017

Call For Papers

*** DEADLINE EXTENDED TO 24st MARCH ***

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The 2017 High Performance Computing & Simulation Conference
(HPCS 2017)

July 17-21, 2017
Genoa, Italy
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http://hpcs2017.cisedu.info or http://cisedu.us/rp/hpcs17

In Cooperation with the ACM, IEEE, IFIP

(Main Track Paper Submission Deadline: February 21, 2017, EXTENDED TO MARCH 24
(Other Conference tracks may have different submission deadlines - Please check the specific track of interest.)

Important Dates:
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Full Paper Main Track Submission Deadline ---------------- March 24, 2017
Notification of Acceptance ----------------------------- April 24, 2017
Conference tracks (symposia, workshops and special sessions) have their own deadlines.
Please refer to the track of interest as posted on the web site
Registration & Camera-Ready Manuscripts Due ---------------May 11 2017
Conference Dates --------------------------------------- July 17-21, 2017

Invitation:
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You are cordially invited to participate in this international event through paper submission, a workshop or a special session organization, a tutorial, a demo, a poster, an exhibit, a panel discussion, a doctoral dissertation, whichever sounds more appropriate and convenient to you.

Purpose:
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The conference will include invited presentations by experts from academia, industry, and government as well as contributed paper presentations describing original work on the current state of research in high performance and large scale computing systems, their design, performance and use, their use in modeling and simulation, and their applications. There will also be tutorial sessions, symposia, workshops, special sessions, demos, posters, panel discussions, doctoral colloquium, and exhibits. Conference sponsorships are welcomed.

In addition to the main track, the conference will have many refereed and archived symposia, workshops and special sessions: Please see
http://hpcs2017.cisedu.info/conference/symposia---hpcs2017,
http://hpcs2017.cisedu.info/conference/workshops---hpcs2017, and
http://hpcs2017.cisedu.info/conference/special-sessions---hpcs-2017.

Topics for the main conference
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Topics include (but are not limited to) the following:

Architectures and Systems
• Cluster and Grid Computing
• Enterprise and Federated Architectures

- High Perf Computing & Architectures for Clouds and Edge Computing
- Fine-Grain Parallelism and Architectures
- Network and Security Processors
- Scalable Computing
- Distributed Shared Memory
- Peer-to-Peer Architectures and Networks
- High Performance Interconnection Networks
- High Performance I/O
- HPC Monitoring & Instrumentation
- Data Flow Machines
- Architectures for High Performance Ubiquitous & Pervasive Computing
- Exascale Architectures
- Multi-Core Architectures and Support
- Instruction-, Thread- and Memory-Level Parallelism
- Embedded and Application-Specific Architectures
- Reconfigurable Computing & FPGA Based Architectures
- Memory, Storage, and Warehousing
- Energy/Power Aware HPC Architectures and Green Computing
- HPC Architectures for Mobility
- Broadband and High Performance Networks
- Sensors and High Performance Networks
- Pervasive High Performance Computing
- Nature Inspired HPC Architectures
- Innovative HPC (Autonomic, Affective, Quantum, ...)

Algorithms
- Modeling, Simulation and Evaluation Techniques of HPC Systems
- Partitioning, Mapping, and Scheduling
- Load Balancing and Sharing
- Mutual Exclusion, Deadlock Detection
- Causality and Time
- Network Flow and Congestion
- Message Passing
- Query Processing and Information Retrieval
- Learning and Intelligence Algorithms
- Modeling and Simulation using HPC Systems
- Reliable Parallel, and Distributed Algorithms
- Routing, Synchronization, Consistency
- Resource Allocation, Sharing and Management
- Coordination, Consensus, and Agreement
- Fault Tolerance and Resilience in HPC Systems
- Network and Systems Protocols
- HLA, InfiniBand and Other Related Standards
- High Performance Data Mining and Searching
- HPC Security, Authentication, Access Control

Software and Middleware in HPC Systems
- Operating Systems and Support
- Compiler Design and Optimization
- Name Services and Naming
- Interprocess Communication
- Transaction and Concurrency Control
- Brokering Middleware
- Enterprise Based Technologies
- Benchmarking and Assessment
- Web Ontologies and Semantics
- Open CL Platforms and Developments
- Virtualization and Virtual Machines
- Programming Languages
- Accelerators Programming
- Libraries and Programming Environments
- Parallel and Distributed File Systems
- Distributed Objects and Remote Invocation
- Object-Oriented Programming & Design
- Software Development Tools and Support
- Software Monitoring and Measurement

Applications-Oriented High Performance
- General-Purpose computation on Graphics Processing Units (GPGPU)
- Parallelization of Simulation
- Bioinformatics and Biocomputing
- High Performance Internet and Web Computing
- Federated and Legacy Applications
- Autonomous Vehicles and Robotics Systems
- High Performance Knowledge Based Systems
- Agent and Multi Agent Based Applications
- Neural, Fuzzy, and Rough Sets in HPC
- Large Scale Scientific Computing
- e-Sciences
- Service Oriented Applications
- Applied Modeling and Simulation using HPC
- Large Scale Systems for Computational Sciences (Biological, Chemical, Physical, Bioinformatics, Environmental, Transportation, Agriculture, etc.)
- Clouds and Edge Computing and Applications

- Data Intensive Supercomputing
- Big Data and Data Analytics
- Real-time and embedded P & D Applications
- Distributed Multimedia Systems
- Web Services and Applications
- P & D Industrial and Manufacturing Applications
- Databases, Repositories and Their Applications
- Mobile and Wireless High Performance Applications
- HPC and Education
- Cooperative Information Systems and Applications
- Computer Supported Decision Making using HPC
- Granular Computing and its Applications
- HPC in Digital Signal and Image Processing and Vision
- Vision, Image Processing, and Pattern Recognition
- Business Intelligence Machine Learning Applications

Submission of Papers
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Papers reporting original and unpublished research results on above and any other related HPCS topics are solicited. Manuscripts submitted should not be under simultaneous consideration by any other conference or venues. Submission should include a completed online web based form (can also include a cover page) with authors' names, affiliations, addresses, fax and phone numbers, and email addresses of all authors. Manuscripts templates are posted on the Author's Info page. Please indicate clearly the corresponding author(s), although all authors are equally responsible for the paper and its content. Include up to 7 keywords from the above list and an abstract of no more than 400 words. Electronic submissions to main conference track will be accepted only in PDF format, uploaded to this web site (left menu). Please submit an electronic copy of your full draft manuscript, not to exceed 8 pages in the single-spaced, double-column format, including figures, tables, and references, according to the template posted on the HPCS 2017 web site using the conference web site submission link (Upload) at http://hpcs2017.cisedu.info. Additional pages will be charged an additional fee. If accepted, the final camera-ready manuscript will follow the conference format template posted, which will be made available to all authors.

Consistent with standard practice, each submitted paper will receive a minimum of three reviews. Papers will be selected based on their originality, soundness, contributions and significance, timeliness, relevance, flow and clarity of presentation, language and overall quality. Initial selection will be based on full papers. Papers are accepted based on these criteria and not those of the authors or their institutions. Submission implies the firm intent and willingness of at least one of the authors to register and present the paper, if accepted. No withdrawal is permitted after the acceptance decision unless there is reasonable cause as determined by the conference organizers. All accepted papers in the conference are required to be presented and will be included in the conference proceedings. People with a submission for the purpose of obtaining reviews only will be flagged and reported. It is our intent to have the proceedings formally published and be available at the time of the conference. The proceedings papers are usually indexed in all major indexing services.

The Conference policy and professional ethics require that referees treat the contents of papers under review as privileged information not to be disclosed to others before publication. It is expected that no one with access to a manuscript under review will make any inappropriate use of the special knowledge which that access provides. Contents of abstracts submitted to the conference program committees should be regarded as privileged as well and handled in the same manner. The Conference Publications and Program Chairs shall require that referees adhere to this practice.

For information about the HPCS 2017 conference in general, please contact the conference organizers or consult the conference web site.

Journals Opportunities
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Plans are underway to have the best accepted papers be selected for publication in some journal special issue(s). Detailed information will soon be announced, and will be made available on the official conference website.

Tracks, Symposia, Workshops and Special Sessions
Tracks, Symposia, Workshops and Special Sessions on HPCS related topics are welcomed. A workshop or a special session proposal should include a title, topics covered by the workshop, organizers information, submission instructions, review process, important dates, total number of expected accepted papers, and any other information for the authors. Proposals for tracks, symposia, workshops and special sessions should be submitted by January 30, 2017 as a Word file email attachment. See Tracks, Symposia, Workshops and Special Sessions web page for more information.

Tutorials
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The conference will offer tutorials (typically 2-4 -hours) on state-of-the-art topics in HPCS. Each tutorial proposal should provide a title, topics to be covered, targeted audience, prerequisites, and a brief biography and qualifications of the instructor. All proposals should be submitted to Tutorials Chairs by 20 February 2017. See Tutorials web page for more information.

Panels and Forums
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Panel sessions and forums will examine innovative, promising, or controversial HPCS issues today. They will also address HPCS challenges and future prospects. Audience participation will be welcomed. If you have ideas or questions concerning Conference's panels and forums, please contact Panels Chairs. Proposals are welcomed and should be submitted by 20 February 2017. See Panels web page for more information.

Posters
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Posters addressing preliminary results, innovative ideas, work in progress, late-breaking results, HPC tools, platforms and products, and other work not suitable for a formal paper and best presented in an interactive setting are solicited. Posters will be held in a special session where presenters will demonstrate their work directly to

conference attendees. Proposals for posters are welcomed and should be submitted to Posters Co-Chairs by 20 February 2017. See Posters web page for more information.

Demonstrations
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Demos and experiential showcases of HPC and large scale computing environments and tools are highly encouraged. These may include any of the themes outlined in the conference topics. If you have any questions, please contact Demos Chairs. Proposals for demos are welcomed and should be submitted by 20 February 2017. See Demos web page for more information.

Doctoral Dissertation Colloquium
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The HPCS Doctoral Colloquium is intended to bring together PhD students working on HPCS related topics, to provide them a friendly forum and an opportunity to present, discuss and illustrate their ongoing research in a constructively critical and informal atmosphere, to obtain valuable feedback from conference attendees, particularly senior researchers and experts in the field. Additionally, the colloquium is meant to facilitate the interaction and collaboration with other researchers. Doctoral students who have not defended their thesis prior to HPCS 2017 are invited to participate in the HPCS Doctoral Colloquium. Proposals for the Doctoral Colloquium are welcomed and should be submitted by 20 February 2017. See DDC web page for more information.

Exhibits
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Exhibit booths will be available to display your newest products and technologies. Make plans now to take advantage of this prime advertising opportunity. If you have any questions, please contact Exhibits Chairs. Proposals are welcomed and should be submitted by March 01, 2017. See Exhibits web page for more information.

Sponsorship and Industry Liaison
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The HPCS 2017 Conference seeks interested Industry Partners who would be willing to sponsor conference events or social activities (e.g., exhibits reception, speaker sponsorship, registration handout packets, special break snacks, etc.). If an industry representative is interested in becoming an HPCS 2017 Industry Partner or would like to propose an event or activity at the conference, please contact the Industry Liaison Chairs. See Sponsorships web page for more information.

Related Resources