

CALL FOR PAPERS

23rd International Conference on Supercomputing

June 8-12, 2009

IBM T.J. Watson Research Center,
Metro New York City Area, USA

ICS'09

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The International Conference on Supercomputing (ICS) is the premier international forum for the presentation of research results in high-performance computing systems. In 2009, the conference will be held at the IBM T.J. Watson Research Center in Yorktown Heights, NY. The Center is located in a scenic area of State of New York and is within easy reach of New York City.

Papers are solicited on all aspects of research, development, and application of high-performance experimental and commercial systems, including:

- Computationally challenging scientific and commercial applications; Application studies and experiences: porting and tuning for performance and scalability
- Architecture and hardware aspects: high-performance and power-aware microarchitectures, multithreading, multicore and multiprocessor systems optimization to exploit different levels of parallelism, interconnection networks, memory organization and parallel storage and I/O
- High-performance computational and programming models; new languages and middleware for high performance computing; autotuners and function-specific code generators
- Hardware and software aspects of computational accelerators for supercomputing, such as Cell, GPGPUs, and FPGAs
- Software aspects: programming models, restructuring and optimizing compilers and runtime systems, kernel and application development and performance tuning tools, operating systems
- Novel infrastructures for Internet, Grid and Cloud computing; Autonomic components at all levels
- Performance evaluation studies and theoretical underpinnings of any of the above topics
- Large scale installations in the Petaflop era: design, scaling, power, and reliability, including case studies and experience reports

Papers should not exceed 6,000 words, and should be submitted electronically, in PDF format using the ICS'09 submission web site. *Submissions should be blind.* The review process will include a rebuttal period. Please refer to the ICS'09 web site for detailed instructions.

Workshop and tutorial proposals are also be solicited and due by January 15, 2009. For further information and future updates, refer to the ICS'09 web site at <http://www.ics-conference.org> or contact the General or Program Chairs.

Important Dates

Abstract submission: January 12, 2009	Paper submission: January 19, 2009	Author notification: March 23, 2009	Final papers: April 16, 2009
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For more information visit the conference web site at <http://www.ics-conference.org>