



Preliminary
CALL FOR PAPERS
31st International Conference on Supercomputing
<http://www.ics-conference.org/>

June 14-16, 2017
 Chicago, USA

Sponsored by ACM/SIGARCH

GENERAL CO-CHAIRS

Willian Gropp
wgropp@illinois.edu
 Pete Beckman
beckman@mcs.anl.gov

PROGRAM CO-CHAIRS

Zhiyuan Li
zhiyuanli@purdue.edu
 Francisco J. Cazorla
francisco.cazorla@bsc.es

LOCAL CHAIR

TBD

PUBLICITY CHAIR

TBD

FINANCE CHAIR

TBD

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TBD

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TBD

ICS is the premier international forum for the presentation of research results in high-performance computing. The 2017 conference will be held in Chicago, United States.

Papers are solicited on all aspects of research, development, and application of high-performance computing systems, including but not limited to the following:

- **Computer architecture and hardware**, including multicore, manycore and multiprocessor systems from small to very large scales, components in such systems such as accelerators, memory systems, storage architectures, interconnection networks at various levels, and heterogeneous systems;
- **Programming and execution models** for high-performance computing, including new paradigms, languages, task creation and specification models, domain-specific language/programming support;
- **Static and dynamic compilation**: optimization techniques to exploit all aspects of high performance architectures and auto-tuning techniques;
- **Runtime and system software** support for high-performance computing, including task and resource management at chip-level, cluster-level, up to the level of large-scale academic/commercial computing service infrastructure, debugging, fault-tolerance, power/energy management, file systems, and performance evaluation/monitoring
- **New computational algorithms and their applications** for high performance computing systems.
- **Workload characterization empirical studies** especially those on new scientific and commercial applications that pose significant challenges, and studies of highly experimental real systems.
- **Data intensive high performance computing**: system support, algorithm design and application development for high performance computing that deal with large-scale collected data sets.

The review process will include a rebuttal period, and the papers will be judged based on novelty, technical soundness, and potential impact on the field.

Important dates are:

Abstract submission:	January 11, 2017 AOE
Paper submission:	January 18, 2017 AOE
Workshop/Tutorial proposals:	February 18, 2017 AOE
Workshop/Tutorial notification:	March 1, 2017 AOE
Author rebuttal period:	March 5-7, 2017
Author notification:	March 20, 2017
Camera-ready papers due:	April 11, 2017

Submission Information will be provided on the submission site.