HPCA-18 Call for Papers



18th International Symposium on **High-Performance Computer Architecture**

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New Orleans, Louisiana, February 25-29, 2012

http://www.hpcaconf.org/hpca18

(collocated with PPoPP-2012)

The International Symposium on High-Performance Computer Architecture provides a high-quality forum for scientists and engineers to present their latest research findings in this rapidly-changing field. Authors are invited to submit papers on all aspects of high-performance computer architecture. Topics of interest include, but are not limited to:

- Processor, cache and memory architectures
- Parallel computer architectures
- Multicore architectures
- Impact of technology on architecture
- Power-efficient architectures and techniques
- Dependable/secure architectures
- High-performance I/O systems
- Embedded and reconfigurable architectures
- Interconnect and network interface architectures
- Architectures for cloud-based HPC
- Innovative hardware/software trade-offs
- Impact of compilers and system software on architecture
- Performance modeling and evaluation
- Architectures for emerging technology and applications

Authors should submit an abstract by Wednesday, August 24, 2011, 11:59 PM EDT. They should submit the full version of the paper by Wednesday, August 31, 2011, 11:59 PM EDT. No extensions will be granted. The full version should be a PDF file that does not exceed 20 pages according to the instructions in http://www.hpcaconf.org/hpca18. Papers that exceed the length limit or that cannot be viewed using Adobe Reader (version 3.0 or higher) may not be reviewed. Papers should be submitted for double-blind **review**. We anticipate making a *Best Paper* award; all papers will be evaluated based on their novelty, fundamental insights, and potential for long-term impact. New-idea papers are encouraged. Submission issues should be directed to the program chair at <dbrooks@eecs.harvard.edu>. Workshop and tutorial submissions should be directed to the workshop and tutorial co-chairs (Meeta Gupta <msgupta@us.ibm.com> and Zhang Lixin <zhanglixin@ict.ac.cn>. HPCA-18 will host an *Industrial Paper Session* presenting novel insights from industry (see Call for Industry Papers at http://www.hpcaconf.org/hpca18).

Important dates

- Abstract deadline: August 24, 2011, 11:59 PM EDT (firm deadline)
- Paper deadline: August 31, 2011, 11:59 PM EDT (firm deadline)
- Workshop and tutorial proposals due: August 31, 2011
- Notification of paper outcome: November 9, 2011

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