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The 19th International Conference on Parallel Architectures and Compilation Techniques – PACT 2010

September 11-15, 2010
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PACT is a multi-disciplinary conference that brings together researchers from the hardware and software areas to present ground-breaking research related to parallel systems ranging across instruction-level parallelism, thread-level parallelism, multiprocessor parallelism and large scale systems.

PACT solicits novel, unpublished papers on a broad range of topics that include, but are not limited to, the following:

- Parallel architectures and computational models
- Multicore, multithreaded, superscalar, VLIW and GPU architectures
- Scalability and system architecture for parallel systems
- Compilers and tools for parallel computer systems
- Compiler exploitation of data- and thread-level parallelism
- Generating parallel code for domain-specific languages
- Support for concurrency correctness in hardware and software
- Compiler/hardware support for managing memory hierarchies
- Hardware and software support for power/heat-aware parallel computing
- Parallel accelerators and reconfigurable computing
- Dynamic translation and optimization for parallel systems
- I/O issues in parallel computing and their relation to applications
- Parallel programming languages, algorithms and applications
- Middleware and run-time system support for parallel computing
- Reliability and fault tolerance for parallel systems
- Modeling and simulation of parallel systems and applications
- Parallel applications and experimental systems studies
- Case studies of parallel systems and applications
- Non-traditional parallel computing systems topics

Paper submissions should not exceed 22 pages, and should be submitted electronically, in PDF format using the PACT2010 submission web site. *All submissions should be blind.* The review process will include a rebuttal period. Please refer to the PACT web site for detailed instructions.

Workshop and tutorial proposals are also solicited and should be submitted to the Workshops and Tutorial Chair by April 3, 2010. Please refer to the PACT web site for detailed instructions.

Important Dates

Abstract submission March 20, 2010	Paper submission March 27, 2010	W&T Proposals April 3, 2010	Notifications June 6, 2010

For more information, please visit the conference web site at http://www.pactconf.org