

# TRANSACT '07: The Second ACM SIGPLAN Workshop on Transactional Computing

To be held in conjunction with PODC 2007  
Portland, Oregon, August 16, 2007

## Preliminary Call for Papers

### PROGRAM COMMITTEE:

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The past few years have seen an explosion of interest in programming languages, systems, and hardware to support transactions, speculation, and related alternatives to classical lock-based concurrency. This workshop, the second in its series, will provide a forum for the presentation of research on all aspects of transactional computing. The scope of the workshop is intentionally broad, with the goal of encouraging interaction across the languages, architecture, systems, database, and theory communities. Papers may address implementation techniques, foundational results, applications and workloads, or experience with working systems. Environments of interest range from multi-threaded or multicore processors to high-end parallel computing.

Specific topics of interest include (but are not limited to):

- Runtime systems
- Hardware support
- Memory models
- Persistence and I/O
- Nesting and exceptions
- Speculative concurrency
- Formal verification
- Debugging and tools
- Language mechanisms and semantics
- Static analysis and compiler optimizations
- Conflict detection and contention management
- Long-running or distributed transactions
- Communication among transactions
- Checkpointing and failure atomicity
- Applications, workloads, and test suites
- Interaction with lock-based or nonblocking code
- Migration from legacy systems

Papers should present original research and should provide sufficient background material to make them accessible to the broader community. Papers focused on foundations should indicate how the work can be used to advance practice; papers on experiences and applications should indicate how the experiments reinforce principles.

### PAPER SUBMISSION:

Papers must be submitted in Postscript or PDF format, and must be no more than 8 pages in length in standard two-column SIGPLAN conference format. Shorter submissions are also welcome.

Hard copies of final papers (up to 10 pages in length) will be distributed at the meeting, but to facilitate re-submission to more formal venues, no archival proceedings will be published. Authors will have the option of having electronic copy of their final paper accessible from the workshop website or other on-line repository. At the discretion of the program committee (and with the consent of the authors), particularly worthy papers may be recommended for a special journal issue.

### WORKSHOP WEBSITE:

[www.cs.rochester.edu/meetings/TRANSACT07/](http://www.cs.rochester.edu/meetings/TRANSACT07/)

### IMPORTANT DATES:

Submissions due: April 15, 2007

Notification: June 1, 2007

Final copy due: July 1, 2007

Workshop: August 16, 2007