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

IMPORTANT DATES:

Submissions due: April 15, 2007
Notification: June 1, 2007
Final copy due: July 1, 2007
Workshop: August 16, 2007