

TRANSACT 2008

To be held in conjunction with PPOPP 2008

February 23, 2008, Salt Lake City, Utah, USA

CALL FOR PAPERS

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 third 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 include the full range from multithreaded or multicore processors to high-end parallel computing. Experience reports are also welcome.

The workshop seeks papers on topics related to all areas of software and hardware for transactional computing. Specific topics of interest include (but are not limited to):

- Runtime systems
- Hardware support
- Memory models
- Language mechanisms and semantics
- Formal verification
- Speculative concurrency
- Conflict detection and contention management
- Debugging and tools
- Static analysis and compiler optimizations
- Checkpointing and failure atomicity
- Persistence and I/O
- Nesting and exceptions
- Applications, workloads, and test suites

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.

Submissions

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.

Program Chairs

Babak Falsafi, CMU/EPFL
Pascal Felber, U. Neuchatel

General Chair

Maged Michael, IBM

Important Dates

Submission: Nov. 30, 2007
Notification: Jan. 21, 2008
Final copy: Feb. 11, 2008
Workshop: Feb. 23, 2008

Program Committee

Ali-Reza Adl-Tabatabai, Intel
Hagit Attiya, Technion
George Candea, EPFL
Christof Fetzer, TU-Dresden
James Goodman, U. Auckland
Goetz Graefe, HP Labs
Christos Kozyrakis, Stanford
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