

WMPI-2006 Call For Papers

The Fourth Workshop on Memory Performance Issues

Held in conjunction with the
[12th International Symposium on High-Performance Computer Architecture \(HPCA\)](#)

Austin, Texas
February, 2006

<http://www.cs.utah.edu/wmpi/2006/>

Submission due: **Dec. 9, 2005, 10 PST**
(firm deadline)

Author notification: **Jan. 6, 2006**

Final paper due: **Jan. 18, 2006**

WMPI is a one-day workshop that provides a forum for researchers and practitioners from academia and industry to discuss advances in computer technology, architecture, software systems, and algorithms that address the growing disparity between processor and memory/network speeds. Hardware and software mechanisms that address this performance gap are equally welcome. We are particularly interested in new or controversial ideas. Work in early stages of development is encouraged. The workshop will include one or more keynote speakers. **The best five to seven papers of this workshop will be published in a special issue of SIGMICRO newsletter.**

Possible topics for papers include, but are not limited to, the following:

- Emerging RAM technologies (e.g., MRAM, nanotechnology, quantum devices)
- Exploiting processing capability in the memory system
- Intelligent memory and/or disk systems
- Reconfigurable memory systems
- Memory systems for vector/stream architectures
- Memory-latency-hiding techniques
- Memory-access-reducing techniques
- Memory system design for large-scale supercomputers
- Memory-oriented speculation/prediction mechanisms
- Cache hierarchy organization
- Scalable cache coherence mechanisms
- Chip multiprocessor cache/memory designs
- Low-power memory systems
- Embedded memory systems
- Fault tolerant memory systems
- Operating system memory management
- Memory-aware compilation techniques
- Memory-aware algorithm design

Please [submit your paper](#) before the due date for review by committee. Authors of accepted papers will present their work. Proceedings containing all papers will be provided to all attendees. Please make sure that your paper:

- is in PS or PDF format,
- should not exceed 4,000 words and 8 pages,
- is formatted for printing on LETTER size paper, and
- is formatted for black-and-white printers (not color printers).

The deadline for submission is **Dec 9, 2005** (no extension will be granted due to the short review period). Authors will be notified of the decision Jan 6, 2006. Final paper is due Jan 18, 2006.