

CALL FOR PAPERS

MICRO - 40

December 1-5, 2007 Chicago, Illinois
The 40th Annual IEEE/ACM International
Symposium on Microarchitecture

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Co-sponsored by IEEE-CS TC-uARCH  and ACM SIGMICRO 

Important Dates: **Submission: June 1st**, Author Rebuttal: Jul 25-27, Notification: Aug 13

The *40th International Symposium on Microarchitecture* is the premier forum for presenting, discussing, and debating new and innovative microarchitecture ideas and techniques for advanced computing and communication systems. The goals of this symposium are to bring together researchers in fields related to microarchitecture, compilers, and systems for technical exchange on traditional microarchitectural topics as well as emerging research areas. Historically, the MICRO community has enjoyed having close interaction between academic researchers and industrial designers; we aim to continue and emphasize this tradition at MICRO-40. Papers are solicited in fields including, but not limited to, the following:

- ILP and TLP architectures and designs: superscalar, VLIW, multi-threaded, multicore, etc.
- Compiler techniques for instruction-level, thread-level, and memory-level parallelism
- Architectures and compilers for embedded processors, DSPs, ASIPs (network processors, multimedia, wireless, ...)
- Dynamic optimization, emulation, and object code translation
- Software/hardware speculation and prediction schemes
- Ultra-low power designs, design efficiency optimizations
- Microarchitectures for reliability, dependability, and security
- Microarchitecture modeling and simulation methodology
- Architectures for new computing paradigms

Qualitative papers: The MICRO-40 conference will continue to accept submissions in the qualitative paper category in addition to the traditional papers. Qualitative papers will be evaluated more on creativity and inherent value propositions, and less on implementation and experimental evaluation. Nevertheless, they should provide some indication as to the potential merits of the proposed ideas, such as preliminary evaluations that extrapolate the potential. Both classes of papers will be considered equally for inclusion based on their overall merit and novelty.

THE DEADLINE FOR SUBMISSIONS IS June 1st, 2007. There is an automatic 1-week extension for late papers (**June 8**), but no other extensions will be granted. There is no extension for abstract submission (June 1). For more information please consult the conference website:

<http://www.microarch.org/micro40>