



CALL FOR PAPERS

MICRO-38

November 12-16, 2005 -- Barcelona, Spain

THE 38th ANNUAL IEEE/ACM INTERNATIONAL SYMPOSIUM ON MICROARCHITECTURE

Co-sponsored by IEEE TC- μ ARCH  and ACM SIGMICRO 

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The 38th International Symposium on Microarchitecture will be held at the new Hilton Hotel in Barcelona Diagonal Mar, the area of Barcelona that hosted the 2004 Universal Forum of Cultures. MICRO is the premier forum for presenting, discussing and debating new and innovative microarchitecture ideas and techniques for advanced computing and communication systems. The goal of this symposium is to bring together researchers in fields related to processor architecture, compilers, and systems, for technical exchange on traditional MICRO topics as well as new 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-38. Novel papers are solicited on a broad range of topics, including, but not limited to:

- ILP and TLP architectures and compiler techniques: VLIW, superscalar, multi-thread, multi-core, ...
- Memory system optimization: latency, bandwidth, prefetching
- Speculation on control flow, data flow, and synchronization
- Power, performance and implementation efficient designs
- Architectures and compilation techniques for embedded and application-specific processors
- Novel approaches to fine-grain parallel processing
- Static and dynamic translation, emulation and optimization of object code
- Microarchitecture modeling and simulation methodology
- Characterizing application behavior and its implication for architecture design and performance
- Measurement and analysis of real microarchitectures

Important Dates:

Abstract & Full Paper Submission Deadline: **May, 2005**

Author Notification Date: **August, 2005**

There is an automatic 1-week extension for submitting the full paper, but no extension on abstract submission. Please submit, using our website, one electronic copy of the paper in PDF format, not to exceed 22 double-spaced single-column pages and 5000 words. Consult the conference website for additional details: <http://www.microarch.org/micro38>

