

# ICCD 2003

## CALL FOR PAPERS

October 13—15, 2003  
Doubletree Hotel, San Jose, CA

Sponsored by the IEEE Computer Society and  
IEEE Circuits and Systems Society,  
in cooperation with the IEEE Electron Devices Society



## International Conference on Computer Design

### IMPORTANT DATES

Submission deadline : May 2nd  
Notification deadline : June 27th  
Final manuscript : July 25th

<http://www.iccd-conference.org>

The International Conference on Computer Design encompasses a wide range of topics in the research, design, and implementation of computer systems and their components. ICCD's multi-disciplinary emphasis provides an ideal environment for developers and researchers to discuss practical and theoretical work covering system and computer architecture, verification and test, design and technology, and tools and methodologies. **The theme for the 2003 ICCD conference is: Multi-Gigahertz Design Challenges.** Submitted papers consistent with this theme are encouraged. Authors are invited to submit technical papers in accordance to the author's instructions describing original work in one of the following five areas:

### Computer Systems Design and Applications

Advanced computer architecture for general and special purpose processors; Architecture modeling and performance analysis; Architectural support for operating systems and languages; Memory hierarchy; System design methods for uni- and parallel-processors.

### Processor Architecture

Microarchitecture design techniques: instruction-level parallelism, superscalar and dataflow techniques, pipelining, caching, branch-prediction, multithreading, computer arithmetic; Embedded network, system-on-chip, and application specific processor design.

### Logic and Circuit Design

Design of digital, analog, mixed-signal, and structured circuits; Design techniques for timing, noise, power and layout optimization; Design prototyping; Asynchronous circuits; Circuit optimization techniques for emerging process technologies.

### Tools and Methodology

Design methodologies for large systems; Concurrent engineering methodologies; Hardware description languages; high-level and logic synthesis, physical design, automatic analysis and optimization of timing, power, and noise; Integrated CAD systems.

### Verification and Test

Simulation based and formal techniques for functional design verification; Equivalency checking, property checking, theorem proving; High-level design validation; Design error debug and diagnosis; Hardware/Software validation; Fault modeling and fault simulation; DFT & ATPG; SoC testing.

### ICCD 2003 ORGANIZING COMMITTEE

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Papers describing novel methods and concepts or innovative features of new products, and focusing on the overall integration of these areas into the computer design process are of particular interest to ICCD. Papers may be accepted as either regular papers or as short papers. All papers will be presented during parallel technical sessions, and will be included in a published proceedings. At least one author of the paper must register for and attend the conference.

Best paper awards will be selected at the discretion of the technical program committee.

Proposals for special sessions, embedded tutorials, and panel discussions are also solicited, and should be sent to:

Tim Brodnax, [brodnax@magma-da.com](mailto:brodnax@magma-da.com)

#### Instructions to Authors

The submitted manuscript should closely reflect the final paper as it will appear in the Proceedings, which will be a maximum of six pages in IEEE double column format. The international review committee will give preference to papers that (excluding references, figures, and tables) do not exceed 3000 words to clearly present the work, methods, results, originality, significance, superiority, and applications of the techniques discussed.

#### Electronic Submission

Authors should plan on formatting their papers in Postscript format. Details on the electronic submission are available at:

<http://www.iccd-conference.org>.

Questions about the submission procedure may be sent to:

Tom Dillinger, [tdill@east.sun.com](mailto:tdill@east.sun.com)