



# CASES 2009

Oct. 11-16, 2009  
Grenoble, France

## CASES 2009

([www.esweek.org/conferences/cases](http://www.esweek.org/conferences/cases))

The CASES conference provides a forum for emerging technology in embedded computing systems, with an emphasis on compilers and architectures and synthesis for embedded systems.

### CASES Topics of Interest

Previously unpublished papers with novel research ideas and solid technical results are solicited. Conference topics include, but are not limited to:

#### I. Compilers

- compilation techniques and compilation flows
- compilers for low power, performance, reliability
- Instruction-level parallelism for VLIW, EPIC and superscalar
- programming paradigms for multi-core systems

#### II. Architectures

- multi-core system-on-chip
- on-chip communication architectures
- extensible, customizable ASIPs
- run-time and design time reconfigurable processors and on-chip architectures
- memory architectures: memory management, smart caches and compiler controlled memories
- novel nano-based architectures
- 3-D architectures

#### III. Synthesis

- synthesis of hardware software systems
- mapping strategies and load balancing for multi-core
- thermal and power-aware synthesis flows
- synthesis for reliability, low power, performance
- 3-D integration and synthesis

#### IV. Embedded Systems

- specification and design
- models of computation
- modeling and management for power/thermal, performance and reliability
- analysis techniques for embedded system including design space exploration, co-simulation
- validation, verification, and debugging techniques of embedded software
- static and dynamic timing analysis
- domain specific embedded applications

### Paper Submission

Papers should be submitted electronically in PDF format. Submissions should be around 5000 words and no more than 10 double-column pages, with 1 inch margins and 11 pt font or larger. Include a 100 word single spaced abstract in the first page of the paper. Please make sure your paper prints satisfactorily on the 8.5"x11" (letter) format, this is especially important for countries where A4 paper is standard.

Reviewing will be double blind and authors must conceal their identity. Submissions not adhering to these guidelines may be summarily rejected at the discretion of the chair.

As in the past, the Program Committee may elect to accept some papers for poster and/or short paper sessions.

### Timetable

Abstract submission: **Friday, May 1, 2009**

Full paper submission: Friday, May 8, 2009

Notification of acceptance: Friday, July 31, 2009

Deadline for final version: Sunday, Aug. 23, 2009

**Note:** all authors must register their paper title, abstract and affiliation by May 1, 2009, in order to be allowed to submit a full paper by May 8, 2009.

### Conference Co-Chairs

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