



CALL FOR PAPERS - TAU 2010

ACM International Workshop on Timing Issues in the Specification and Synthesis of Digital Systems

<http://www.tauworkshop.com>

March 18 - March 19, 2010

Marriott Fisherman's Wharf in San Francisco, California
Sponsored by ACM/SIGDA and in-cooperation with IEEE/CAS

The TAU series of workshops provide an informal forum for practitioners and researchers working on temporal aspects of digital systems to disseminate early work and engage in a free discussion of ideas. The seventeenth in the TAU series, the TAU 2010 workshop emphasizes the analog side of the current and future digital circuits and systems with special invited talks and a special focus on submissions from topics including but not limited to:

Transistor level models

Analog circuit modeling

Timing interfaces with mixed signal circuits

Reliability modeling and simulation

Circuit-level simulation of digital circuits

Simulation and characterization of SRAM circuits

Digital cell characterization for many corner/statistical timing

As usual, the TAU 2010 workshop also invites submissions from the traditional areas related to the timing properties of digital electronic systems, including but not limited to:

Hierarchical modeling and analysis

Formal theories and methods

System-level timing

Transistor-level timing

Circuit-level timing

Sensitivity analysis

Full custom design analysis

Integrated functional-temporal analysis

Circuit optimization

Uncertainty-based analysis

Statistical analysis techniques

Clocking, synchronization, and skew

Clock domains, static/dynamic logic

Novel clocking schemes

Incremental analysis

Timing issues in low power design

Power-delay trade-offs

Adjacent line switching and coupling

Delay models and metrics

Layout impact on timing

Timing-driven layout optimization

Timing-driven synthesis and re-synthesis

Incorporation of RETs in timing

Process & environmental variation models

Special circuit families

Asynchronous systems

Timing implications of emerging technologies

IMPORTANT DATES

Submission deadline	December 15, 2009
Acceptance notification	February 6, 2010
Camera-ready paper due	February 22, 2010

SUBMISSION OF PAPERS

All papers must be submitted electronically. Details will be posted on the web site <http://www.tauworkshop.com>. Submissions are limited to 6 pages in the double column proceedings format. In order to allow for a blind review, the submitted pdf version of the papers should not contain the authors name or any direct reference to the authors. TAU is a workshop aimed at fostering a high level of professional interaction, not a conference. Copies of papers will be provided to the attendees, but the proceedings will not be published by the ACM or the IEEE. Therefore, accepted papers can still be submitted to other conferences and journals. The intent of the workshop is to encourage the vigorous and unfettered discussion of the latest ideas in the field.

WORKSHOP ORGANIZATION (see the web site for more details):

General Chair: Peng Li, Texas A&M University
Program Chair: Florentin Dartu, Synopsys, Inc.