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IEEE Transactions on Computer-Aided Design
of Integrated Circuits and Systems

Special Issue on
Behavioral Modeling and Simulation
of Mixed-Signal/Mixed-Technology
Circuits and Systems

As the drive for further integration of analog, digital, RF and MEMS onto a single die has intensified, behavioral modeling and simulation with Mixed-Signal Hardware Description Languages (HDLs) has become critical to address the challenge of designing today's increasingly complicated electronic and electronic-based systems. The recent emergence of a new generation of mixed analog-digital simulators capable of simulating the standard languages (VHDL-AMS and Verilog-A/MS) exemplifies this trend. Research efforts to include RF extensions to these standards and couple EM algorithms to mixed analog-digital methods continue to promulgate this field. The purpose of this special issue is to provide a means of rapid publication of the latest research advances in behavioral modeling and simulation. The special issue will deal with aspects of behavioral modeling, simulation and applications including algorithms, tools, and methods that exploit modeling and simulation across various abstraction levels and various disciplines.

Submission and review procedure:

Prospective authors should follow the submission guidelines of IEEE Transactions on Computer-Aided Design (TCAD). All manuscripts must be submitted electronically to the TCAD website at <http://tcad.ece.orst.edu>. Authors should indicate their manuscript is for consideration of the Special Issue on Behavioral Modeling and Simulation at the time of submission.

Schedule:

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