

# International Conference on Synthesis, Modeling, Analysis and Simulation Methods and Applications to Circuit Design



Seville, Spain · 19-21 September 2012

The International Conference on Synthesis, Modeling, Analysis and Simulation Methods and Applications to Circuit Design (SMACD) will be held in Seville (Spain) as a dedicated forum devoted to Design Methods and Tools for Analog, Mixed-signal, RF (AMS/RF) and multi-domain (MEMs, nanoelectronic, optoelectronic, biological, etc.) integrated circuits and systems.

SMACD 2012 topics of interest include, but are not limited, to:

- Performance modeling
- Power and thermal modeling
- Reliability modeling
- Variability modeling
- Compact device and circuit modeling
- Multi-domain modeling (optoelectronics, MEMs, biological, biochemical, etc.)
- Modeling languages and applications
- Linear and non-linear model reduction
- Circuit and system theory and applications
- Behavioral modeling and simulation
- Numerical and symbolic simulation methods
- Distributed and parallel circuit simulation
- Analysis and simulation techniques for emerging nanoscale devices
- Analysis of reliability effects: aging, electro-migration, BTI, etc.
- Simulation and estimation methods of variability and yield
- Fault modeling and simulation
- System-level specification and simulation
- Novel system-level design flows
- Innovative design methodologies enabled by behavioral, performance, and/or symbolic modeling techniques
- Synthesis methods in multi-domain (MEMs, electro-optical, etc.) systems
- Physical synthesis
- High-frequency modeling, simulation and design
- Low-power design techniques
- Parasitic-aware synthesis
- Variability-aware and reliability-aware design methodologies
- Test and design-for-test methods
- Language-based synthesis techniques
- Optimization methods applied to circuit and system design: high-level synthesis, structural synthesis, sizing, etc.

## TECHNICAL CO-SPONSORSHIP



## AUTHOR'S SCHEDULE

Deadline for submission of papers: ..... April 1, 2012  
Notification of acceptance: ..... June 1, 2012  
Deadline for submission of camera ready papers: ..... July 10, 2012

web page: [www.smacd2012.org](http://www.smacd2012.org)

contact us: [contact@smacd2012.org](mailto:contact@smacd2012.org)



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SMACD 2012 papers will be published in the IEEE Xplore digital library

A selection of SMACD 2012 papers will be considered for a special issue of the *Analog Integrated Circuits and Signal Processing International Journal*

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