

SMACD 2017

Organized by:

DIEM

Dpt. of Information and Electrical Engineering and Applied Math.
University of Salerno

Technically Co-Sponsored by:

IEEE

CEDA
IEEE Council on Electronic Design Automation

CAS
IEEE Circuits and Systems Society

The 14th International Conference on Synthesis, Modeling, Analysis and Simulation Methods and Applications to Circuit Design (SMACD) will be held in Giardini Naxos-Taormina, Italy, as a forum devoted to modeling, simulation and synthesis for Analog, Mixed-signal, RF (AMS/RF) and multi-domain (MEMS, nanoelectronic, optoelectronic, biological, etc.) integrated circuits and systems. Experiences with modeling, simulation and synthesis techniques in diverse application areas are also welcomed. Objective technologies include CMOS, beyond CMOS, and More-than-Moore such as MEMS, power devices, sensors, passives, etc. Topics of interest include, but are not limited to:

Modeling

- *Compact modeling*
- *Performance and behavioral modeling*
- *Power and thermal modeling*
- *Reliability and variability modeling*
- *Multi-domain modeling*
- *RF/microwave/mm-wave modeling*
- *Modeling languages and applications*
- *Linear and non-linear model order reduction*
- *Circuit and system theory and applications*
- *Fault modeling*

Simulation, verification and test

- *Behavioral simulation*
- *Numerical and symbolic simulation methods*
- *Simulation and estimation methods of variability and yield*
- *Analysis of reliability effects (aging, electro-migration, stress...)*
- *High-frequency simulation techniques*
- *Multilevel simulation techniques*
- *Multi-domain simulation*
- *Formal and functional verification*
- *Fault simulation and diagnosis*

Synthesis

- *Multilevel design methodologies*
- *Synthesis methods of multi-domain circuits and systems*
- *Physical synthesis*
- *High-frequency circuit and system design*
- *Low-power design techniques*
- *Parasitic-aware synthesis*
- *Variability-aware and reliability-aware design methodologies*
- *Performance monitors and self-healing techniques*
- *Test and design-for-test methods*
- *Fault tolerance*
- *Language-based synthesis techniques*
- *Optimization methods applied to circuit and system design*

Applications of modeling, simulation and synthesis in

- *Automotive*
- *Bio-electronics*
- *Security*
- *Internet-of-Things*
- *Communications*
- *Renewable systems*
- *Energy Management*
- *Engineering Education*

Organizing Committee

General Chair:
Giulia Di Capua, University of Salerno, IT

TPC Co-Chairs:
Francisco V. Fernández, University of Seville, ES
Nuno Horta, University of Lisbon, PT
Gunhan Dundar, Boğaziçi University, TR

Publication Co-Chairs:
Ricardo Martins, University of Lisbon, PT
Nuno Lourenço, University of Lisbon, PT
Kateryna Stoyka, University of Salerno, IT

Local Arrangements Co-Chairs:
Giuseppe Di Cataldo, University of Catania, IT
Alfio D. Grasso, University of Catania, IT

Technical Committee

Engin Afacan; Rafael Castro-Lopez; Florin Constantinescu; Catherine Dehollain; Mohammed Dessouky; Tom Dhaene; Giulia Di Capua; Alex Doboli; Günhan Dündar; Ilke Ercan; Mourad Fakhfakh; Nicola Femia; Francisco V. Fernandez; Maria Helena Fino; Georges Gielen; Alberto Gola; Helmut Graeb; Francesco Grasso; Daniel Grosse; Lars Hedrich; Nuno Horta; Anton Klotz; Agnieszka Konczykowska; Jose María Lopez-Villegas; Marie-Minerve Louerat; Nuno Lourenco; Po-Hung (Mark) Lin; Stefano Manetti; Ricardo Martins; Montserrat Nafría; Kemal Ozanoglu; Giovanni Petrone; Elisenda Roca; Ben Rodanski; Carlos Sánchez-López; Alper Sen; Jurgen Scheible; Guoyong Shi; Ralf Sommer; Giovanni Spagnuolo; Haralampos Stratigopoulos; Sheldon Tan; Esteban Tlelo-Cuautle; Gerd Vandersteen; Mustafa Berke Yelten.

Venue

Atahotel Naxos Beach Congress Centre
Giardini Naxos, Messina (ITALY)

Important Dates

Paper Submission	**17th Feb 2017**
Author Notification	**1st Apr 2017**
Camera Ready Submission	**15th Apr 2017**
Early Registration	**15th Apr 2017**

Contacts

URL: http://smacd2017.unisa.it/
e-mail: smacd2017@unisa.it
twitter or facebook: @PRIMEandSMACD17