The 2019 edition of the International Conference on Synthesis, Modeling, Analysis and Simulation Methods and Applications to Circuit Design (SMACD) will be held in Lausanne, Switzerland, as a forum devoted to modeling, simulation and synthesis for Analog, Mixed-signal, RF (AMS/RF) and multi-domain (MEMs, nanoelectronics, optoelectronics, 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 & system theory and application
- 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, electromigration, stress...)
- High-frequency simulation techniques
- Multi-level simulation techniques
- Multi-domain simulation
- Formal and functional verification
- Fault simulation and diagnosis

**Synthesis**
- Multilevel design methodologies
- Synthesis methods of multi-domain circuit and systems
- Physical synthesis
- High-frequency circuit and system design
- Low-power design techniques
- Parasitic-aware synthesis
- Variability-aware & reliability-aware design
- Performance monitors & 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

**IMPORTANT DATES**
- Paper Submission Deadline ........................................... 8th March 2019
- Author Notification .......................................................... 19th April 2019
- Camera Ready Paper Submission ........................................... 3rd May 2019
- Early Registration Deadline .................................................. 3rd May 2019

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Contact: info@smacd2019.com