



7-10 July • İstanbul • TURKIYE

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where circuits come alive

# Call for PAPERS

The 2025 edition of the International Conference on Synthesis, Modeling, Analysis and Simulation Methods, and Applications to Circuit Design (SMACD) will be held from 7 to 10 July in İstanbul, TURKIYE. SMACD is a forum devoted to modeling, simulation, and synthesis for Analog, Mixed-signal, RF (AMS/RF), and multi-domain (nanoelectronics, biological, MEMS, optoelectronics, etc.) integrated circuits and systems, as well as, emerging technologies and applications. Open-source tools and methods for IC design and 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. The Conference Proceedings will be published at the IEEE Xplore® Digital Library.

## CAD AND EDA METHODS AND TOOLS FOR AMS SYSTEMS

### Synthesis, Sizing & Optimization

- Multi-level Synthesis Methods
- Physical Synthesis Methods
- High-frequency Circuits & Systems
- Low-Power & Energy-Aware Design
- Parasitic-Aware Design
- Variability-aware & Reliability-Aware
- Sizing & Optimization Methods
- Procedural Design Methods

### Modeling

- Performance/Behavioral
- Power and Electro-therma
- Reliability and Variability
- RF/microwave/mm-wave
- Signal/Power Integrity
- Electromagnetic Theory
- Transmission Line Theory
- Automated Model Gen.

### Simulation, Verification & Test

- Behavioral Simulation
- Numerical & Symbolic
- RF Circuit Simulation
- Electromagnetic Simulation
- Multilevel Simulation
- Analysis of Variability Effects
- Formal/Functional Verification
- Test & Design-for-Test

## EMERGING TECHNOLOGIES AND APPLICATIONS (ETA)

### CAD for Emerging Technologies

- CAD for Bio-Electronic Devices, Bio-Sensors
- CAD for Multi-Domain Devices and Circuits
- CAD using Cloud Computing
- AMS Soft and Hard IP Blocks Generating Meth.

### ML for CAD/EDA

- ML for device/circuit modelling
- ML for circuit/system simulation
- ML for automatic sizing and layout

### Hardware Security

- Hardware Security primitives (PUFs, etc.)
- Attacks and Countermeasures
- Anticounterfeiting
- Methods, Architectures and Tools for Secure Design

## EMERGING DEVICES AND PARADIGMS

- Emerging Device Modeling
- Design Strategies using Emerging Devices

- Emerging Devices in Security
- Devices, Hardware and Methods for Bio-Inspired and Neuromorphic Computing

## AMS ICS AND MULTI-DOMAIN DESIGN APPLICATIONS

- Internet of Everything
- Automotive Systems
- Biomedical and Bio-inspired CAS

- Low-Power Low Voltage CAS
- Sensors and Sensing Systems
- Security Systems
- Aerospace Systems
- Renewable Energy Systems

## IMPORTANT DATES

Paper Submission Deadline.....February 14, 2025

Author Notification.....April 8, 2025

Camera Ready Paper Submission.....April 30, 2025

Early Registration Deadline.....April 30, 2025

## ORGANIZED BY



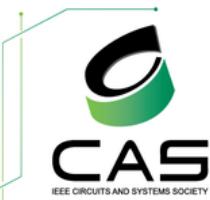
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