

SMACD 2025

where circuits come alive

7-10 July • İstanbul • TÜRKİYE

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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, TÜRKİYE. 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 | Modeling | Simulation, Verification & Test |
|--|---|--|
| <ul style="list-style-type: none"> 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 | <ul style="list-style-type: none"> Performance/Behavioral Power and Electro-therma Reliability and Variability RF/microwave/mm-wave Signal/Power Integrity Electromagnetic Theory Transmission Line Theory Automated Model Gen. | <ul style="list-style-type: none"> Behavioral Simulation Numerical & Symbolic RF Circuit Simulation Electromagnetic Simulation Multilevel Simulation Analysis of Variability Effects Formal/Functional Verification Test & Design-for-Test |

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EMERGING TECHNOLOGIES AND APPLICATIONS (ETA)

- | CAD for Emerging Technologies | ML for CAD/EDA | Hardware Security |
|---|---|--|
| <ul style="list-style-type: none"> 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. | <ul style="list-style-type: none"> ML for device/circuit modelling ML for circuit/system simulation ML for automatic sizing and layout | <ul style="list-style-type: none"> 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



THE VENUE



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