

IEEE COINS 2021

IEEE International Conference on Omni-layer Intelligent Systems

IEEE | IEEE RAS | IEEE CEDA | IEEE COMPUTER SOCIETY | VSA-TC IEEE CAS | E-HEALTH-TC IEEE COMSOC | TC-ICPS IEEE IES | IEEE IOT

Hybrid Event:
(On-site In-person Presentation & Virtual Presentation)

Barcelona, Spain
August 23-25, 2021



Call for
Papers

Track Name: EDA for AI, IoT, and Cyber-physical Systems

Electronic Design Automation (EDA) ecosystem plays a crucial role in the development of intelligent solutions: from connected IoT Edge devices to large scale Autonomous Systems. At the same time, Artificial Intelligence is being incorporated into EDA tools and processes to speed-up design and improve designed systems' quality.

The EDA track of IEEE COINS provides a central location for all members of the ecosystem to connect, share, learn and witness cutting edge research in all areas of development for EDA in IoT and Intelligent Systems, and for the application of Artificial Intelligence to EDA. This track encourages original and high-quality submissions related to one or more of the following topics (but not limited to):

EDA for Intelligent and Autonomous Systems

- System Design, High-Level Synthesis and Optimization
- Design Methodologies for Machine Learning Architectures
- Specification and Modeling Languages for Intelligent Systems
- Formal Methods and System Verification
- CAD for Cyber-Physical Systems

Artificial Intelligence Applications to EDA

- Artificial Intelligence Applications to IC Design and VLSI
- Artificial Intelligence Applications to Cyber-Physical Systems Design
- Artificial Intelligence for System Simulation, Verification and Testing

EDA for IoT, Edge and Cloud Computing Systems Design

- Device Modeling, System Simulation and Validation
- Temperature and Variability Aware Design and Optimization
- Power Modeling, Optimization and Low-Power Design

IEEE COINS will publish accepted papers in the conference proceedings and the proceedings will be submitted to the IEEE Xplore Digital library and indexing services.

Selected best contributions of IEEE COINS will be invited to submit expanded versions of their studies to IEEE IoTJ (IF=9.936) for review and potential publication.

Special Track Co-Chairs

Sara Vinco, Politecnico di Torino, Italy

Michele Lora, University of Verona, Italy

Special Track Program Committee

Yasser Shoukry, University of California, Irvine, USA

Sudipta Chattopadhyay, Singapore University of Technology and Design, SG

Diana Goehringer, TU Dresden, DE

Soheil Samii, Linköping University / General Motors R&D

Jeronimo Castrillon, TU Dresden, DE



Submission of Regular Papers
and Special Session Papers
April 30, 2021



Notification of Paper Acceptance
June 30, 2021