

4th IEEE International Conference on Design & Test of Integrated micro & nano-Systems

June, 7-10, 2022 Cairo, Egypt

<http://www.dts-conf.org>



IEEE DTS'2022 Call for Panels

Hybrid Interactive Event



Aim of the Panels:

A panel proposal should address a related hot topic that is of substantial interest to the majority of DTS attendees, because it is controversial or increasing in importance. The proposal should include a panel title, introduction, the name of the organizer, a proposed moderator, and proposed panelists, along with contact information for all. For more information, please contact the Panel Chair.

Papers are solicited in, but not limited to, the following topics:

Systems Design & Technology

- Analog, digital, mixed, and RF circuits design
- SoC, MPSoC, NoC, SIP, and NIP design
- Embedded electronics and System architecture
- MEMS, NEMS and MOEMS systems design
- Low-power electronics and systems design
- Sensory Systems Design
- Wireless communication systems design
- Opto-electronic System Design
- Biomedical Circuit & Systems
- Bio-engineering & Bio-chip design
- Linear & Non-Linear Circuits
- Power electronics and systems design
- Hardware co-design & FPGA design
- VLSI systems circuit and design
- DSPs and multiprocessor systems
- Embedded systems for Deep Learning
- Control Systems & Mechatronics
- Algorithms, methods and tools for modeling, simulation, synthesis and verification of ICS
- Algorithms, methods and tools for signal processing and image processing
- Algorithms, methods and tools for information security and cryptography
- Artificial Intelligence systems
- Electronic systems for energy harvesting applications
- GPS based engineering systems
- Process technologies, CMOS, BiCMOS, GaAs
- Microwave Systems & Integrated antenna
- 3D integration design and analysis
- ICs packaging

Systems Testing & Reliability

- Analog, digital, mixed, and RF circuits testing
- SoC, MPSoC, NoC, SIP, and NIP test
- On-line Testing and fault Tolerance
- Defect and Fault Modeling
- MEMS, NEMS and MOEMS Testing
- 3D testing
- Delay testing
- DFT, BIST and BISR
- Fault Simulation, ATPG
- Yield Optimization
- Memory & FPGA Test and Repair
- Automotive reliability and test
- Reliability failures and modeling
- Electronic System Reliability
- Test and Security Issues
- ATE issues
- Alternatives test strategies

Nanotechnology and applications

- Nanomaterials and applications: Nanostructured / nanoporous Materials and devices, Carbon Nanostructures and devices, Polymer Nanotechnology and devices...
- Nanoscale Materials/devices Characterization and modeling
- Nanoelectronics: Nano-circuits and Nano-architectures,
- Microfluidics and Nanofluidics Systems
- Nano-sensors for environmental monitoring
- Nanotechnology for health care and diagnosis: BioMEMS and BioNEMS, Lab On chips and Biosensors, Implantable micro/nano systems,...
- Nano/micro Technologies based Energy harvesting and storage devices and microsystems: Renewable and Novel Energy harvesting approaches (innovative solar cells, piezoelectric and thermoelectric mircosources), Energy storage devices and applications (fuel cells, supercapacitors etc..)
- Nanorobotics and Nano-manipulation

VLSI IoT Devices

- Ultra-low power VLSI design for IoT
- System on Chip for IoTs
- IoT Application oriented Technologies
- IoT communication systems
- Real-time IoT systems
- RFID systems
- IoT Services and Applications
- IoT nodes architectures
- Sensors and Actuators for IoT
- Power and Energy systems design for IoT nodes
- Connectivity for IoT
- Computing Platforms for IoT
- Data Acquisition, Storage and Management for IoT
- Security and Privacy Enhancing Technologies for IoT devices
- IoT System Interfaces
- Reliability of IoT VLSI

Deadline: Panels proposals due: **April, 15th 2022**

Panel Chair:

- **Prof. Hatem Trabelsi**, ENIS, Tunisia
hatem.trabelsi@enis.tn

Upon acceptance, the organizer(s) will take care of preparing and submitting a one page abstract (to be included in the formal proceedings) covering the panel topic, coauthored by the organizer(s), the moderator and all panelists.

Conference Website: <http://www.DTS-conf.org>

