DTIS
Design & Technology of Integrated Systems
in Nanoscale Era 2016

Call for Papers

11th International Conference on Design & Technology of Integrated Systems in Nanoscale Era
April 12-14, 2016, Istanbul, Turkey
http://dtis2016.teiath.gr/

General Chairs:
Selcuk Baktir, Bahcesehir University, Turkey
Suleyman Tosun, Hacettepe University, Turkey

Program Chair:
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Aim of the Conference: to cope with the rapidly progressing technology which, today, reaches the nanometer scale. The areas of interest include the design, test and technology of electronic products, ranging from integrated circuit modules and printed circuit boards to full systems and microsystems, as well as the methodologies and tools used in the design, verification and validation of such products. Topics of the conference include, but are not limited to:

Integrated Systems Design:
- SOC, SIP design
- Multiprocessor systems
- Embedded systems
- Wireless systems
- Network on Chip
- Analog, Mixed Signal and RF systems
- MEMS and MOEMS systems
- Low Voltage and Low Power systems
- Innovative technologies
- Synthesis (physical, logic)
- Simulation, Validation and Verification
- 3D integration
- Hardware Security
- FPGA design

Integrated Systems Technology:
- Nanoelectronics
- Device modeling
- Material characterization
- Failure analysis
- New components
- Packaging
- Process technology
- Reliability issues
- 3D integration

Integrated Systems Testing:
- Defect and fault modeling
- Analog and Mixed Signal testing
- MEMS/MOEMS testing
- SOC and SIP testing
- Delay testing
- Memory testing
- Fault Simulation, ATPG
- DFT, BIST and BISR
- On-line testing and fault tolerant systems
- ATE issues
- Alternative test strategies
- 3D testing
- Test and Security Issues

Organizers: DTIS'16 will be organized by Bahcesehir University, Istanbul and Hacettepe University, Ankara, Turkey, and sponsored by IEEE CEDA (to be confirmed).

Best Paper award: A best paper award will be given during the conference.

Journal Special Issue: A selection of the best papers presented in the Conference will be considered for publication in a Special Issue of the **Microelectronics Journal**.

Papers Submission: Authors are invited to submit original, unpublished research work to DTIS'16. Paper submissions should be complete manuscripts. The paper must clearly indicate the area, main results and contributions. The manuscript should follow the instructions included in the author's kit at the conference web site. Submitted articles should be in PDF format and uploaded to the on-line submission system. Submissions will be considered as evidence that, upon acceptance, the corresponding author assumes responsibility of preparing the final version in due time and, also, the commitment of registration and presentation of the paper at the conference. Accepted papers will be submitted to the IEEE Explore.

Proposals for Special Session: Proposals for original, high-quality Special Sessions addressing innovative research, highlighting significant topics and emerging issues, related to the conference theme, are welcome. Special session proposals should not exceed two pages, should describe the topic and intended audience, and a short bio of organizer(s). All special session proposals should be sent to Lukas Sekanina, at sekanina@fit.vutbr.cz by December 10, 2015.

Important Dates:

Paper Submission deadline	**January 27, 2016**
Notification of acceptance:	**February 27, 2016**
Final version due date:	**March 20, 2016**

Questions about the conference can be addressed to:

General Chairs:
Selcuk Baktir
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Program Chair:
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About the location: Located in the center of the Old World, Istanbul is one of the world's great cities famous for its historical monuments and magnificent scenic beauties. It is the only city in the world which spreads over two continents: it lies at a point where Asia and Europe are separated by a narrow strait called the Bosphorus. Istanbul has a history of over 2,500 years and has been the capital of three great empires, the Roman, Byzantine and Ottoman empires. The historic city center, known as the Old City, is surrounded by 5th century Roman city walls and partially listed as a UNESCO World Heritage Site. Istanbul is adorned by masterpieces of Roman, Byzantine and Ottoman art including the Hagia Sophia, the Blue Mosque, the Imperial Topkapi Palace and the Basilica Cistern. More over 10 million foreign tourists visit Istanbul annually, making it the world's 5th most popular tourist destination.