



March 23-25, 2010 Hammamet, Tunisia

<http://www.dtis-conference.net>

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Mohamed Masmoudi, ENIS-Tunisia

Michel Renovell, LIRMM-France



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The aim of the 5<sup>th</sup> International conference on Design & Technology of Integrated Systems in nanoscale era (DTIS'10) is to cope with the rapidly progressing technology which reaches today the nanometer scale. The general area of interest includes the design, test and technology of electronic products, ranging from integrated circuits modules and printed circuit board to full systems and Microsystems, as well as examining the methodologies and tools used in the design, verification and validation of such products. DTIS'10 will be organized by The National Engineering School of Sfax in collaboration with the Laboratory of Informatics, Robotics and Microelectronics of Montpellier (LIRMM), France. It will be supported by The Tunisian Ministry of Higher Education, Scientific Research and Technology, and technically co-sponsored by the IEEE and the IEEE Circuits and Systems Society. The conference official language is English.

### General Scope:

#### Integrated System 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

#### Integrated System Technology:

- Nanoelectronics
- Device modeling
- Material characterization
- Failure analysis
- New components
- Packaging
- Process technology
- Reliability issues

#### Integrated System 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

This 5<sup>th</sup> edition of the DTIS conference will be held in Hammamet (Tunisia), located in the Tunisian North. Hammamet offers visitors an air of freshness and sweetness of life. It is a well known tourist city with luxury hotels and charming beaches. The conference will be held at CARTHAGO HOTEL (5 stars). The hotel is located on the main esplanade of Yasmine Hammamet, on the seafront, facing the Marina.

### Paper Submission:

Authors are invited to submit original, unpublished research work for the DTIS'10. Paper submissions should be complete manuscripts. The paper must clearly indicate the area, main results and contributions. The manuscript should follow the instructions given in the author's kit of the conference web site. On the title page, please include: author name(s) and affiliation(s), mailing address and contact author e-mail. All submissions should be as MSWord or PDF files and have to be made electronically through the DTIS'10 on-line submission system.

**Submissions will be considered as evidence that, upon acceptance, an author will prepare the final version in due time and also a commitment that he or she will register, attend the meeting and present the paper during the conference.**

### Important Dates:

**November 20, 2009**

- ~~November 10, 2009~~ : Submission deadline (new deadline)
- **December 22, 2009** : Notification of acceptance
- **January 25, 2010** : Final version due date