

# 3<sup>rd</sup> INTERNATIONAL CONFERENCE ON SIGNALS, CIRCUITS AND SYSTEMS

November 6-8, 2009 Djerba, Tunisia

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

2<sup>nd</sup> Call For Papers



#### General Chairs:

F. Karray, Canada  
M. Masmoudi, Tunisia

#### Program Chairs

S. Boumaiza, Canada  
U. Schwälke, Germany

#### Track Chairs:

"Systems, Automation and e-Learning"

S. AlSharhan, Kuwait  
W. Gueaieb, Canada

#### "Nanotechnology and MEMS"

M. El Shall, USA  
P. Nouet, France

#### "Signals and Communications"

S. Affes, Canada  
A. Ghazel, Tunisia

#### "Circuits and Electronics"

K. Karim, Canada  
M. Essaaidi, Morocco

#### Local Arrangement Chairs:

H. Trabelsi, Tunisia  
M. S. Masmoudi, Tunisia

#### Publicity Chairs:

M. Baklouti, France  
N. Khitouni, Tunisia

#### Registration Chairs:

K. Abbes, Tunisia  
M. Abida, Canada

#### Publication Chairs:

G. Bouzid, Tunisia  
H. Thabet, Tunisia

**OVERVIEW:** The aim of the 2009 International Conference on Signals, Circuits & Systems (SCS'09) is to address issues of pertinence to new advances in technologies related to the fields of signals, circuits and systems. The multi-disciplinary approach to engineering has become an important factor for the design of many new products and processes. The systems integration of engineering areas in circuits, electronics, controls, mechatronics and computing exploits and exceeds the relative advantages of single disciplines. When adequately integrated, the synergy among the areas ensures that performances reach much improved levels. The SCS'09 will be an international forum for researchers and specialists to exchange ideas and thoughts of common interest. It will provide an opportunity to present and discuss the latest research work in the several areas of the conference and to target future collaboration on current issues identified by conference participants. SCS'09 is technically co-sponsored by the IEEE, the IEEE Circuits and Systems Society.

**PAPERS SUBMISSION:** Technical papers describing original research work in the conference technical topics listed below are solicited. Papers for this conference must be submitted online (in pdf format) via the SCS'09 website <http://www.scs-conference.net/>. Hard copy manuscripts are not accepted. Complete information on how to submit a paper and author's kit can be found at the SCS'09 website. All articles will undergo a rigorous review process. **Accepted papers** will be published in the conference CDROM and on the IEEE Xplore.

#### SPECIAL ISSUES:

**Extended version** of selected papers will be recommended for publication in International Journals Special or regular issues, such as, *Microelectronics Journal*, *Journal of Advanced Computational Intelligence and Intelligent Informatics*, *International Journal on Robotics and Automation*, *International Journal on Intelligent Control*.

#### SPECIAL EVENTS:

- A Student Best Paper competition will be held in the SCS'09.
- An excursion in the fabulous Tunisian Sahara will be also arranged for SCS'09 attendees

#### KEYNOTE SPEAKERS:

- Prof. Yann Deval, IMS-Bordeaux, France
- Prof. Arokia Nathan, London Centre for Nanotechnology, UK
- Prof. Marios Polycarpou, University of Cyprus, Cyprus

#### IMPORTANT DATES

- JULY 15<sup>TH</sup>, 2009 : PAPER SUBMISSION DEADLINE
- SEPTEMBER 15<sup>TH</sup>, 2009 : NOTIFICATION OF ACCEPTANCE
- OCTOBER 10<sup>TH</sup>, 2009 : CAMERA-READY PAPER DUE DATE

#### CONFERENCE VENUE

- The SCS'09 will be held in the beautiful island of Djerba.
- The Island can be reached by land or by air (daily flights from the capital).
- Djerba is only few hours drive from the majestic Tunisian Sahara and from the location where the original Star Wars movie was shot.
- The SCS'09 will take place in the five star Yadis hotel (<http://www.yadis.com>).

## GENERAL AREAS:

Below is the list of technical areas of the SCS'09 organized in four tracks. Authors shall choose a primary and an alternative area when submitting their manuscripts. Other research areas that fall within the four tracks are also welcomed.

#### Circuits and Electronics

- Analog and Mixed Circuits
- Ultra-Low-Voltage and Sub-Threshold Logic Design;
- RF Circuits and Sub-Circuits
- Embedded Systems
- SOC, SIP Design
- DFT, BIST and BISR
- Biomedical Circuits and Systems
- Photonic and Optoelectronic Circuits
- High Performance Digital VLSI
- Microprocessor Architectures
- Instrumentation/Measurement
- RFID and ISM band Systems
- Wireline Receivers, Transmitters

#### Nanotechnology and MEMS

- Advanced Nano and MEMS Technologies
- MEMS Design
- Sensors and Sensor Networks
- Molecular and Organic Electronics;
- Energy sources and harvesting;
- Manufacturing, Assembly and Packaging
- Highly Integrated Packaging
- Design Automation, Test and Reliability
- Computer Aided Design
- Biological Effects and Medical Applications

#### Signals and Communications

- Speech Processing and Coding
- Image/Video Processing, Coding
- Wavelets and Multi-rate SP
- Emerging Wireless Systems
- Digital Communications
- Wireless Mesh and Broadband Local/Personal Area Networks
- 3G/4G Wireless Communications
- Satellite Network Systems
- Cognitive Radio
- Broadband Fixed Wireless and Last-Mile Access Techniques
- Propagation and Channel Characterization/Modeling
- Radars and Broadband

#### Systems, Automation and e-Learning

- Computational Intelligence
- Knowledge Based Approaches
- Pattern Recognition
- Intelligent Systems Design
- Machine Learning
- Soft Computing
- Intelligent Automation and Logistics
- Embedded Systems Design
- Linear and Nonlinear Control
- Smart Mechatronics Devices
- Autonomous and Cognitive Robotics
- E-Learning and Online Education
- Interactive Mobile and Computer Aided Learning