



**Program of the Multi-Conference on
Systems, Signals & Devices**

SSD 2015

March 16–19, 2015

Mahdia, Tunisia



12th International Multi-Conference on Systems, Signals and Devices (SSD'11)

March 16–19, 2015, Mahdia – Tunisia

Organized by:

University of Sfax, Ecole Nationale d'Ingénieurs de Sfax,
Institut Supérieur de Biotechnologie de Sfax (Tunisia)

Philadelphia University (Jordan)

Technische Universität Chemnitz, (Germany)

Leipzig University of Applied Sciences, (Germany)

Supported by:

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IEEE Robotic and Automation Society, Tunisian Chapter

IEEE Signal Processing Society, Tunisian Chapter

IEEE Computational Intelligence, Tunisian Chapter

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Association Tunisienne des Sciences Appliquées et de Technologies (ATSAT) (Tunisia)

Arab Science and Technology Foundation (ASTF)

Sponsored by:

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Preface

Following the success of SSD'01 held in Hammamet-Tunisia, SSD'03 and SSD'05 held in Sousse-Tunisia, SSD'07 held in Hammamet-Tunisia, SSD'08 held in Amman-Jordan, SSD'09 held in Djerba-Tunisia, SSD'10 held in Amman-Jordan, SSD'11 held in Sousse-Tunisia, SSD'12 held in Chemnitz-Germany, SSD'13 held in Hammamet-Tunisia, and SSD'14 held in Casteldefels-Barcelona-Spain, the twelfth International Multi-Conference on Systems, Signals and Devices - SSD'15 to be held at Mahdia-Tunisia, from 16th to the 19th of March 2015. The conference program consists of 3 plenary sessions, 10 Keynote Lectures and 39 oral sessions. SSD'15 multi-conference is organized to include 5 conferences covering different fundamental and applied aspects:

1. "Int. Conf. on Systems Analysis and Automatic Control" (SAC)
2. "Int. Conf. on Power Electrical Systems" (PES)
3. "Int. Conf. on Communication and Signal Processing" (CSP)
4. "Int. Conf. on Sensors, Circuits and Instrumentation Systems" (SCI)
5. "Int. Conf. on Computers and Information Technology" (CIT)

SSD'15 secretariat has received 288 submissions from 20 countries: Algeria, Canada, Egypt, France, Germany, India, Italy, Japan, Jordan, Libya, Malaysia, Morocco, Oman, P.R. China, Qatar, Saudi Arabia, Spain, Tunisia, Ukraine and USA.

Each paper has been reviewed by at least two reviewers of the program committee which consisted of more than 100 scientists from more than 30 countries. Only 195 papers have been accepted.

We would like to express our deep gratitude to all chairs and members of the program committee for their substantial reviews. Special thanks are due to all members of the organizing committees for their determination to make this event a promising success.

Finally, we would like to extend our deep gratitude to all those who have contributed to the financial support of SSD'15 financially.

Professors Jawhar Ghommam and Faouzi Derbel

Mahdia, Tunisia

March, 2015

General Informations

Date and Location

Mahdia, is a Tunisian coastal city, south of Monastir, southeast of Sousse and north of Sfax. It is important for the associated fish-processing industry, as well as weaving. The beach of Mahdia is among the last unspoilt beaches in this part of Tunisia. Madhia was the Fatimid capital or North Africa and the successful home base that led to the conquest of Cairo which then ultimately led to the cities demise as Cairo took over as the capital of the Fatimid empire. Mahdia also has little squares with coffee shops which have a lovely canopy of trees and at time of writing (March) this was being made use of by locals and visitors alike. A famous such place is the “Place du Caire” which has a cool ambiance and the lovely doors of the Mustapha Hamza Mosque.

Access

Mahdia is about 140 km south of Tunis, 105 km north of Sfax, 60 km east of Kairouan and 20 km from Monastir airport. Railway stations are available. For more information about Tunisia see:

- ➡ <http://www.tunisiaonline.com/>
- ➡ <http://www.tourismtunisia.com/>

For more information about Mahdia see:

- ➡ <http://www.touristicguide.com/>



Transfer to Mahdia:

✈️ **Arrival to Tunis Carthage Airport:**

From the airport to the Railway Station: by taxi (about 10 Dinars) or by Aero-Bus.

From the airport to the Hotel (Mahdia): by taxi (about 75 Dinars)

Train from Tunis to Sousse about two hours (between 10 and 15 Dinars)

From Sousse Railway Station to the hotel : by Taxi or Tourist Train (about 10 Dinars).

✈️ **Arrival to Monastir Habib Bourguiba Airport:**

By Taxi (about 20 Dinars) or by the Railway (Metro) to Sousse.

Then by Taxi or Tourist Train (about 10 Dinars).

Hours of travel train from Tunis to Sousse

Departure	Arrival
06:00	07:52
09:05	11:00
12:05	14:00

Departure	Arrival
13:35	15:27
15:40	17:42
17:35	19:27

Departure	Arrival
18:45	20:47
21:20	23:10
22:20	00:10

The Host Country Tunisia

Official Language:

The official language in Tunisia is Arabic. The second language is French and is spoken by almost all people. The third language, which is taught at school until baccalaureate is English. Especially in tourism towns like Mahdia, many people speak other languages, like German, Italian and Spanish.

Currency Exchange:

International currencies can be changed in every bank or post-office in Tunisia to Tunisian Dinars (TND). The exchange rates to and from € and US\$ are approximately:

1 TND \simeq 0.45 €	1 € \simeq 2.2 TND
1 TND \simeq 0.51 US\$	1 US\$ \simeq 1.97 TND

For more exact rates, see the website: www.xe.com

Up to 30 % of the exchanged amount could be changed back against Receipt at leaving. By an export of more than a value of 500 TND, a currency entry statement is necessary.

Bank opening times:

Monday-Thursday:	8:00-11:00 and 13:30-15:15
Friday:	8:00-11:00

Furthermore, in most hotels, there are possibilities to change little amounts of money.

Conference Web-Site

► <http://www.ssd-conf.org>

Conference Registration Desk

The Conference registration desk will be indicated in the hotel, and will be open on Sunday, March 15, from 15h00 to 19h00.

Payment Method and Registration Fees

The registration fee includes admission to all conference events, a copy of the proceedings USB Stick, all coffee breaks and refreshments.

At least one author per paper must register and pay the full registration fee (at the non-student rate) according to the following schedule:

Registration fee Schedule	Before March 1st, 2015	Late Registration
Full Fare for one paper	620 €	700 €
Student	500 €	550 €
Industrial	750 €	800 €
Additional paper	200 €	200 €
Charge per extra page	50 €	50 €

Students must show a valid proof of their student status.

Additional Proceedings

An additional copy of the conference Abstract book costs 30 TND

An additional copy of the conference USB costs 30 TND

Author Informations

Official Language of the Conference

The official language of the conference is English and will be used for all presentations and printed material.

Oral Presentations

A 20 min time slot (including discussion) is allocated for each contributed oral presentation.

General Chairs

Jawhar Ghommam (Tunisia)
Faouzi Derbel (Germany)

Honorary Chair

Hans-Rolf Tränkler (Germany)

International Steering Committee

Al-Aubidy, Kasim Mousa (Jordan)	Fischerauer ,Gerhard (Germany)
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Chtourou, Mohamed (Tunisia)	Lotfi Krichen (Tunisia)
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Derbel, Nabil (Tunisia)	Mekideche, Mohamed (Algeria)
Djemel, Mohamed (Tunisia)	Melchior, Pierre (France)
Feki, Moez (Tunisia)	M'Saad, Mohamed (France)

Local Organizing Committee

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Amine Kallel	Dhouha Bouchaala
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Mehdi Guermazi	Fatma Ben Salem
Alaa Chabir	Sonda Ammar
Hanen Mdhaffar	Slim Abid
Aida Fourati	Donia Ben Halima Abid
Sameh Fakhfakh Ghribi	Faten Cherni
Mayssa Yengui	

Conference on Systems Analysis & Automatic Control

Conference Chairs:

Moez Feki (Tunisia)
Tarek Tutunji (Jordan)

Scientific Program Committee:

Abdrabbo, Saber (Egypt)	Castillo-Toledo, Bernardino (Mexico)	Mahir, Rami A. (Jordan)
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Ali, Mohammad M. (Jordan)	Cotta, Carlos (Spain)	Ouali, Abderrazak (Tunisia)
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Al-Tikriti, Munther N. (Jordan)	Farza, Mondher (France)	Saad, Maarouf (Canada)
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Bani Younis, Mohammad (Jordan)	Gao, Zhiwei (China)	Soudani, Dhaou (Tunisia)
Benali, Abderraouf (France)	Garcia, Germain (France)	Tanner, Harbert (USA)
Benrejeb, Mohamed (Tunisia)	Gasmi, Moncef (Tunisia)	Tutunji, Tareq (Jordan)
Bettayeb, Maamar (UAE)	Gauthier, Guy (Canada)	Werner, Herbert (Germany)
Boudjemaa, Fares (Algeria)	Ghommam, Jawhar (Tunisia)	Yang, Jianxi (China)
Boukhnifer, Moussa (France)	Jumah, Mazin (Bahrain)	Yusuf, Hasan (Oman)
Brogliato, Bernard (France)	Loria, Antonio (France)	

Reviewer List:

Al-Saif, Abdulwahid (Saudi Arabia)	Burlikowski, Wojciech (Poland)	Kilani, Mohammad (Jordan)
Ababneh, Mohammad (Jordan)	Chabir, Alaa (Tunisia)	Krichen, Lotfi (Tunisia)
Abdrabbo, Saber (Egypt)	Dehri, Khadija (Tunisia)	Medhaffar, Hanene (Tunisia)
Abu Mallouh, Mohammed (Jordan)	Derbel, Faouzi (Germany)	Meghnous, Ahmed-Rédha (France)
Al-Aubidy, Kasim M. (Jordan)	Derbel, Nabil (Tunisia)	Mekki, Hassen (Tunisia)
Ali, Mohammed Mehdi (Jordan)	Feki, Moez (Tunisia)	Othman, Mohammad (Jordan)
Al-Shabi, Mohammad (Jordan)	Fourati, Aida (Tunisia)	Rawashdeh, Nathir (Germany)
Al-Sharif, Lutfi (Jordan)	Ghommam, Jawhar (Tunisia)	Rekik, Chokri (Tunisia)
Ammar, Boudour (Tunisia)	Issa, Rateb (Jordan)	Salah, Mohammad (Jordan)
Baker, Munther (Jordan)	Jallouli-Khlif, Rim (Tunisia)	Trawiński, Tomasz (Poland)
Banihani, Suleiman (Jordan)	Jaradat, Mohammad (Jordan)	Tutunji, Tarek (Jordan)
Ben Salem, Fatma (Tunisia)	Kanoun, Olfa (Germany)	Yousfi, Najah (Tunisia)
Bouteraa, Yassine (Tunisia)		

Topics:

Advances in linear control theory	Optimal and stochastic control
System optimization	Variable Structure Control
Multivariable control	Robust control
Large scale systems	Hierarchical and man-machine systems
Infinite dimension systems	Intelligent control systems
Nonlinear control	Robotics and mechatronics
Distributed control	System identification
Predictive control	Biological and economical models & control
Geometric control	Neural networks and neural control
Adaptive control	Fuzzy systems and fuzzy control

Conference on Power Electrical Systems

Conference Chairs:

Lotfi Krichen (Tunisia)

Mohamed Elleuch (Tunisia)

Scientific Program Committee:

Al-Atrash, Jeris (Jordan)

Al-Tae, Majid (UK)

Ait-Ahmed, Nadia (France)

Alazzawi, Wagah F. (Jordan)

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Ben Alla, Hocine (Algeria)

Besbes, Mondher (France)

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Boutana, Ilhem (Algeria)

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Denai Mouloud A. (Algeria)

Djennoune, Said (Algeria)

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Elleuch, Mohamed (Tunisia)

Gabsi, Mohamed (France)

Guermazi, Abdessattar (Tunisia)

Hadj Abdallah, Hsan (Tunisia)

Henneberger, Gerard (Germany)

Kamoun, Mohamed B. A. (Tunisia)

Kirtley, Jim L. (USA)

Krichen, Lotfi (Tunisia)

Lazim, Mohammad T. (Jordan)

Magetto, Gaston (Belgium)

Marchand, Claude (France)

Marta, Molinas (Norway)

Mekidèche, Mohamed (Algeria)

Mimouni, Mohamed Faouzi (Tunisia)

Moghavvemi, Mahmoud (Malaysia)

Multon, Bernard (France)

Nair, Nirmal (New Zeland)

Néji, Rafik (Tunisia)

Perfumo, Francesco (Italy)

Rufer, Alfred (Suiszterland)

Saied, Basil (Iraq)

Saman, Wasim (Australia)

Tamura, Junji (Japan)

Reviewer List:

Abdelkafi, Achraf (Tunisia)

Abdennadher, Imen (Tunisia)

Al-Aubidy, Kasim Mousa (Jordan)

Ayadi, Moez (Tunisia)

Ben Salem, Fatma (Tunisia)

Boukettaya, Ghada (Tunisia)

Brahmi, Jomaa (Tunisia)

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Ghodbane, Fathi (Tunisia)

Guermazi, Abdessattar (Tunisia)

Guesmi, Tawfik (Tunisia)

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Jallouli, Rihab (Tunisia)

Kahouli, Omar (Tunisia)

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Krichen, Lotfi (Tunisia)

Lachhab, Islam (Tunisia)

Masmoudi, Abdelkarim (Tunisia)

Masmoudi, Ahmed (Tunisia)

Rekik, Mouna (Tunisia)

Sallem, Souhir (Tunisia)

Samet, Hekmet (Tunisia)

Sbita, Lassaad (Tunisia)

Trabelsi, Hafedh (Tunisia)

Yanguì, Abderrazak (Tunisia)

Topics:

Electric machines modeling and control

Electric machine design

Special machines

Power electronic converters

Variable speed drives

Automotive electrical systems

Monitoring and diagnostics

Power systems

Renewable energy generation

Electromagnetic compatibility

Variable speed generating systems

Transformers

Conference on Communication & Signal Processing

Conference Chairs:

Ines Kammoun Jemal (Tunisia)
Imene Khanfir Kallel (Tunisia)
Mohamed Ibnkahla (Canada)

Scientific Program Committee:

Aach, Til (Germany)	Drira, Khalil (France)	Lankl, Berthold (Germany)
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Daoud, Omar (Jordan)	Kamoun, Lotfi (Tunisia)	Solaiman, Basel (France)
Deriche, Mohamed (Saudi Arabia)	Karray, Fakhreddine (Canada)	Speidel, Joachim (Germany)
Djemel, Khalifa (France)	Khelifa, Nawres (Tunisia)	Vanheeghe, Philippe (France)

Reviewer List:

Abdelkefi, Fatma (Tunisia)	Chaabouni, Aymen (Tunisia)	Jamel, Thamer (Jordan)
Abu-Isbeih, Ibrahim (Jordan)	Colantonio, Paolo (Italy)	Jawdeh, Ehab (Jordan)
Al-Aubidy, Kasim Mousa (Jordan)	Collins, Gayle (Canada)	Kallel, Fathi (Tunisia)
Al-Khateeb, Nada (Jordan)	Damati, Ahlam (Jordan)	Kammoun Jemal, Inès (Tunisia)
Alouini, Mohamed-Slim (Saudi Arabia)	Daoud, Omar (Jordan)	Khanfir Kallel, Imene (Tunisia)
Ammar Bouhamed, Sonda (Tunisia)	Derbel, Nabil (Tunisia)	Lahyani, Imene (Tunisia)
Ammous, Kaiçar (Tunisia)	Deriche, Mohamed (Saudi Arabia)	Lankl, Berthold (Germany)
Attar, Hani (Jordan)	Douik, Ali (Tunisia)	Loulou, Mourad (Tunisia)
Ayadi, Raouia (Tunisia)	Douss, Skandar (Tunisia)	Lucci, Leonardo (Italy)
Baccour, Nouha (Tunisia)	Fakhfakh Ghribi, Sameh (Tunisia)	Makhloufi, Achraf (Tunisia)
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Boulejfene, Noureddine (Tunisia)	Hamarsheh, Qadri (Jordan)	Tlili, Fethi (Tunisia)
Bourbia, Salma (Tunisia)	Hamrouni, Kamel (Tunisia)	

Topics:

Signal processing	Telecommunication systems
Communication systems	Coding compression
Digital signal processing	Information theory
Image and video compression algorithms	Communication networks
Speech recognition	Wireless communication
Person authentication	Optical communication
Biometry and medical imaging	Wireless sensor networks
Data fusion	MIMO communications
Pattern recognition	Artificial intelligence
Modulation and signal design	Information retrieval
Communication theory and techniques	Adaptive antennas
Communication protocols and standards	Smart antennas

Conference on Sensors, Circuits & Instrumentation Systems

Conference Chairs:

Olfa Kanoun (Germany)

Omar Daoud (Jordan)

Scientific Program Committee:

Abid, Mohamed (Tunisia)
Abu-Isbeh, Ibrahim (Jordan)
Akama, Seiki (Japan)
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Al-Omouh, Abdullah (Jordan)
Alazzawi, Wagah F. (Jordan)
Attar, Hani (Jordan)
Attari, Mokhtar (Algeria)
Brasseur, Gerog (Austria)
Daoud, Omar (Jordan)
Demidenko, Serge (Malaysia)
Fischerauer, Gerhard (Germany)
Gasulla, Manel (Spain)

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Gupta, Vinod Kumar (India)
Hans, Volker (Germany)
Ismail, Mohamed (USA)
Jawdeh, Ehab (Jordan)
Kanoun, Olfa (Germany)
Kulpa, Krzysztof (Poland)
Ladjici, Ahmad Amine (Algeria)
Landi, Carmine (Italy)
Lay-Ekeaukille, Aimé (Italy)
Lewis, Noelle (France)
Loulou, Mourad (Tunisia)
Masmoudi, Mohamed (Tunisia)

Masmoudi, Nouri (Tunisia)
Mukhopadhyay, Subhas (New Zealand)
Nakamatsu, Kazumi (Japan)
Omari, Mones (Jordan)
Ortmanns, Maurits (Germany)
Qahwaji, Rami (UK)
Reindl, Leonard (Germany)
Renaud, Sylvie (France)
Rock, H. (Germany)
Samet, Mounir (Tunisia)
Sarirah, Saleh (Jordan)
Zagar, Bernhard (Austria)

Reviewer List:

Abdelkafi, Amine (Germany)
Abu-Isbeh, Ibrahim N. (Jordan)
Al-Aubidy, Kasim Mousa (Jordan)
Al-Azzaoui, Wagah Mohammed (Jordan)
Al-Hamry, Ammar (Germany)
Ali, Abbas Ali (Jordan)
Ali, Mohammed Mehdi (Jordan)
Al-Saif, Abdul-Wahid (Saudi Arabia)
Attar, Hani (UK)
Baker, Munther (Jordan)
Bani Younis, Mohammed (Jordan)
Benchirouf, Abderrahman (Germany)
Bouchaala, Dhouha (Germany)

Bouhamed, Ayda (Germany)
Bradai, Sonia (Germany)
Büschel, Paul (Germany)
Chaour, Issam (Germany)
Cuadras, Angel (Spain)
Damati, Ahlam (Jordan)
Daoud, Omar (Jordan)
Daponte, Pasquale (Italy)
Derbel, Faouzi (Germany)
Fendri, Ahmed (Tunisia)
Guenther, Thomas (Germany)
Jamel, Thamer (Jordan)
Joudeh, Ihab (Jordan)

Kallel, Bilel (Tunisia)
Khriji, Sabrine (Germany)
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Mukhopadhyay, Subhas (New Zealand)
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Samarah, Ashraf (Jordan)
Saraireh, Saleh (Jordan)
Siam, Mohammad Zakariya (USA)
Viehweger, Christian (Germany)
Wendler, Frank (Germany)

Topics:

Fundamentals and physics
Self test
Fault tolerance system & diagnosis
Simulation and design
Calibration and quality insurance
Sensors and actuators
Transducer design
Optical sensors and applications
Biomedical instrumentation systems
Circuits and systems
Full custom and semi-custom integrated circuits:
– Design concepts
– architectures and high-performances
– low-power circuits

Analog and digital signal processing
Neural networks implementation
Pulse mode neural networks
Genetic algorithm implementation
Sigma delta converters
Design for testability
Low-voltage design
Low-power VLSI design
RF circuit design
Smart home
Life sciences
Environmental applications
Opto-electronics
Micro-machines

Conference on Computers & Information Technologies

Conference Chairs:

Mohammed Bani Younis (Jordan)

Yassine Bouteraa (Tunisia)

Scientific Program Committee:

Abid, Mohamed (Tunisia)

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Alimi, M. Adel (Tunisia)

Attari, Mokhtar (Algeria)

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Ben Amar, Chokri (Tunisia)

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Hamarsheh, Qadri (Jordan)

Jamel, Thamer M. (Jordan)

Ouali, Mohamed (Tunisia)

Ridha, Mateen N. (Malaysia)

Rishdan, Sultan (Jordan)

Said, Aziz (Egypt)

Sellami, Mokhtar (Algeria)

Sharawi, Mohammad S. (Saudi Arabia)

Speidel, Joachim (Germany)

Tlemçani, Abdelhalim (Algeria)

Tutunji, Tareq (Jordan)

Reviewer List:

Abu-Isbeih, Ibrahim (Jordan)

Al-Aubidy, Kasim (Jordan)

Al-Aubidy, Kasim Mousa (Jordan)

Alazzaoui, Wagah Mohamed (Jordan)

Al-Oqily, Ibrahim (Jordan)

AlQaralleh, Esam (Jordan)

AlQaralleh, Esam (Jordan)

Al-Refai, Hasan Moh'd Hasan (Jordan)

Al-Saif, Abdulwahid (Saudi Arabia)

Al-Shabi, Mohammad (Jordan)

Al-Taye, Mohammad (Jordan)

Attar, Hani (Jordan)

Boudabbous, Anis (Tunisia)

Bouteraa, Yassine (Tunisia)

Chemori, Ahmed (France)

Daoud, Omar (Jordan)

Daoud, Omar (Jordan)

Derbel, Nabil (Tunisia)

Feki, Moez (Tunisia)

Fourati, Aida (Tunisia)

Ghommam, Jawhar (Tunisia)

Hamarsheh, Qadri (Jordan)

Hanna, Samer (Jordan)

Joudeh, Ihab (Jordan)

Lazim, Mohammed (Jordan)

Maouch, Morad (Jordan)

Migdadi, Hassan (Jordan)

Migdadi, Hassan (Jordan)

Naimi, Ibrahim (Jordan)

Nazer, Anis (Jordan)

Rushdan, Sultan (Jordan)

Rushdan, Sultan (Jordan)

Said, Ghoul (Jordan)

Saraireh, Saleh (Jordan)

Saraireh, Saleh (Jordan)

Tartir, Samir (Jordan)

Topics:

Computer technology

Hardware design

Software design

Operating systems

Knowledge-based systems

Fuzzy logic algorithms

Neural networks algorithms

Genetic algorithms

Intelligent systems

Embedded systems

Parallel processing

Cloud computing

Distributed systems

Real time systems

Computer networks

Wireless sensor networks technology protocols

Smart systems

Virtual reality systems

Mixed reality systems

SSD'15 : Multi-Conference Program


	08 h 30 – 09 h 15	09 h 15 – 10 h 00	10 h 00 – 10 h 45	10 h 45 – 11 h 15	11 h 15 – 12 h 00	12 h 00 – 13 h 20	13 h 20 – 14 h 30	15 h 00 – 17 h 00	17h 00 – 19 h 00	19 h 00	
Sunday March, 15								Registration for foreign attendees			
Monday March, 16	Registration		Official Opening	Coffee Break	Plenary Session 1	Oral Sessions SAC 1 & PES 1 CSP1 & SCI 1 CIT 1	Lunch	Oral Sessions SAC 2 & SAC 3 PES 2 & SCI 2 CIT 2	SSD Meeting		
Tuesday March, 17	Plenary Session 2	Oral Sessions SAC 4 & SAC 5 PES 3 & CSP 2 SCI 3		Coffee Break	Keynote Lectures L1	Oral Sessions SAC 6 & PES 4 CSP 3 & SCI 4 CIT 3	Lunch	SSD'15, Social Program			
Wednesday March, 18	Plenary Session 3	Oral Sessions SAC 7 & PES 5 CSP 4 & SCI5 CIT 4		Coffee Break	Keynote Lectures L2	Oral Sessions SAC 8 & PES 6 CSP 5 & SCI 6 Keynote Lecture CIT	Lunch	Oral Session SAC 9 & SAC 10 PES 7 & CSP 6 SCI 7	Workshop Organized by ISBS Sfax	Conference Dinner at 21h00	
Thursday March, 19	Oral Session SAC 11 & PES 8 CSP 7 & SCI 8 CIT 5			Closure		Post Conference Program					

Sunday, 15 of March, 2015

Registration (Foreign Attendees)		<u>Sunday, 15h00-19h00</u>
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Monday, 16 of March, 2015

Registration		<u>Monday, 8h30-10h00</u>
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Official Opening		<u>Monday, 10h00-10h45</u>
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Coffee Break		<u>Monday, 10h45-11h15</u>
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Plenary Session 1 :	<u>Monday, 11h15-12h00</u>	
Chairs : Ahmed Chemori (France) Moez Feki (Tunisia)		
PL 1	Stabilization of Time-Varying and Nonlinear Systems with Pointwise and Distributed Delays Through the Reduction Model Approach	
	<i>Frederic Mazenc</i>	(France)

Session SAC 1 : Chaotic Systems	<u>Monday, 12h00-13h20</u>	
Chairs : Nahla Khraief haddad (Tunisia) Hassène Gritli (Tunisia)		
SAC 1.1	The compass-like biped robot revisited	
	<i>Yosra Miladi, Ahmed Chemori and Moez Feki</i>	(Tunisia-France)
SAC 1.2	Tensor-based methods for Wiener and Hammerstein channels identification	
	<i>Zouhour Ben Ahmed, Gérard Favier and Nabil Derbel</i>	(Tunisia-France)
SAC 1.3	Master-Slave Controlled Synchronization to Control Chaos in an Impact Mechanical Oscillator	
	<i>Hassène Gritli and Safya Belghith</i>	(Tunisia)

Monday, 12h00-13h20

- SAC 1.4 Synchronization of chaotically behaving two permanent magnet synchronous motors using adaptive controller
Sana Ben Jemaâ and Moez Feki (Tunisia)

Monday, 12h00-13h20

Session PES 1 : Power Systems I

Chairs : Mohamed Elleuch (Tunisia)
Hasn Haj Abdallah (Tunisia)

- PES 1.1 A WT Based DSP Algorithm to Calculate SAPC Compensating Current in Accordance to IEEE STD 1459-2010
Gad Mohamed, Medhat El Geneidy and Nabil Abbasy (Egypt)
- PES 1.2 Improvement of transient stability in an AC/DC system with synchronverter based HVDC
Raouia Aouini, Bogdan Marinescu, Khadija Ben Kilani and Mohamed Elleuch (Tunisia-France)
- PES 1.3 Linking the Results of Key and Supplementary Comparisons of Regional Metrology Organization for Electrical Power
Oleh Velychko (Ukraine)

Monday, 12h00-13h20

Session CSP 1 : Image and Video Processing

Chairs : Najoua Essoukri Ben Amara (Tunisia)
Sameh Fakhfakh (Tunisia)

- CSP 1.1 An Efficient Hardware Architecture for Interpolation Filter of HEVC Decoder .
Manel Kammoun, Ahmed Ben Atitallah and Nouri Masmoudi (Tunisia)
- CSP 1.2 Digital images watermarking and partial encryption based on DWT transformation and chaotic maps
Oussama Benrhouma, Olfa Mannai, Houcemeddine Hermassi and Safya Belghith (Tunisia)
- CSP 1.3 Prototype Arabic Sign Language Recognition using Multi-Sensor Data Fusion of Two Leap Motion Controllers
Mohamed Mohandes (Saudi Arabia)

Monday, 12h00-13h20

Session SCI 1 : Wireless Sensors and Networks

Chairs : Olfa Kanoun (Germany)
Omar Daoud (Jordan)

- SCI 1.1 An Energy Efficient Convergecast Generic Algorithm for Wireless Sensors Network
Wafa Hayder and Mahmoud Abdellaoui (Tunisia)

Monday, 12h00-13h20

- SCI 1.2 A Novel Implantable Planar Inverted-F Antenna for Biomedical Applications ..
Amal Bouazizi, Nejah Nasri, Ghada Zaibi, Mounir Samet and Abdennaceur Kachouri (Tunisia)
- SCI 1.3 Power Saving Solution For WSN Cases Studies based on Interrupt handler versus DMA ..
Halim Kacem (Tunisia)
- SCI 1.4 Extending the Network Lifetime of Wireless Sensor Networks Using Fuzzy Logic
Oussama Ben Belghith and Lassaad Sbita (Tunisia)

Monday, 12h00-13h20

Session CIT 1 : Wireless Communications Networks I

Chairs : Faouzi Derbel (Germany)
Mohamed Bani-Younis (Jordan)

- CIT 1.1 Centralized KNN anomaly detector for WSN ..
Aymen Abid, Awatef Ben Fradj Guiloufi, Nejah Nasri, Abdennaceur Kachouri, Adel Mahfoudhi and Mohamed Abid (Tunisia-Saudi Arabia)
- CIT 1.2 MAI Plus Noise-Constrained LMS-based Algorithm for MIMO-CDMA DFE Systems ..
Khalid Mahmood, Syed M Asad, Azzedine Zerguine and Muhammad Moinuddin (Saudi Arabia)
- CIT 1.3 A Reputable Secure routing protocol for Wireless Sensor Networks ..
Ali Adnan, Zurina Hanapi and Mohamed Othman, Zuriati Ahmad Zukarnain and Idris Umar (Malaysia)

Monday, 13h20-14h30



Lunch

Monday, 15h00-17h00

Session SAC 2 : System Identification

Chairs : Kasim Mousa Al Aubidy (Jordan)
Frédéric Mazenc (France)

- SAC 2.1 Identification of an Irrigation Station Using Hybrid Fuzzy Clustering Algorithms Based on Particle Swarm Optimization ..
Jaouher Chroua (Tunisia)
- SAC 2.2 Parameter Identification for Nonlinear Biological Phenomena Modeled by S-systems ..
Majdi Mansouri, Onur Avci, Hazem N. Nounou and Mohamed Nounou (Qatar)
- SAC 2.3 Modeling and Identification of a Ship Propelled by Two Water Jets ..
Samir Nejim and Hassène Rebhi (Tunisia)

Monday, 15h00-17h00

- SAC 2.4 Sliding Window Identification with Linear-Equality Constraints
Thabet Hajer, Mounir Ayadi and Frederic Rotella(Tunisia-France)
- SAC 2.5 Bi-Axis Control Algorithm to Generate Manuscript Shapes From Mathematical
Handwriting Model
Imène Mahmoud, Inès Chihi, Afef Abdelkrim and Mohamed Benrejeb (Tunisia)
- SAC 2.6 Identification of Hammerstein Nonlinear Systems With Delayed Input
Asma Atitallah, Kamel Abderrahim and Saida Bedoui(Tunisia)

Monday, 15h00-17h00

Session SAC 3 : Observers and System Estimation

Chairs : Moussa Boukhnifer (France)
Nabil Derbel (Tunisia)

- SAC 3.1 Attitude Observers for Accelerated Vehicles Using IMU and GPS Measurements
Saliha Bencheikh, Salim Ibrir and Salah Boukraa(Algeria-Saudi Arabia)
- SAC 3.2 High Gain Observer Based Higher Order Sliding Mode Control: Application to
an Induction Motor
Abdelhak Msaddek, Abderraouf Gaaloul and Faouzi M'Sahli(Tunisia-Saudi
Arabia)
- SAC 3.3 Design of Unknown Inputs and Multiple Integral Observers for Takagi-Sugeno
Multiple Model
Wafa Jamel, Atef Khedher, Nasreddine Bouguila and Kamel Benothman
(Tunisia)
- SAC 3.4 Design of an ARX-Laguerre based proportional observer
Hassene Bedoui, Anis Khouaja, Kamel Benothman and Hassani Messaoud
(Tunisia)
- SAC 3.5 Nonlinear High Gain Observers for a Semi Continuous Stirred Tank Reactor ...
Amira Abdelkader(Tunisia)
- SAC 3.6 Robustness enhancement of proportional Q -integral multiobserver in the case of
non-stationary sinusoidal unknown inputs
Mouhib Allaoui, Anis Messaoud and Ridha Ben Abdennour(Tunisia)
- SAC 3.7 State Estimation for Switched linear systems
Lamaa Sellami and Kamel Abderrahim(Tunisia)

Monday, 15h00-17h00

Session PES 2 : Power Electronics in Renewable Energy Systems

Chairs : Abderrazak Yanguï (Tunisia)
Ghada Amer (Egypt)

- PES 2.1 Modeling and Control of Parallel Inverters-Based Dual-Stage Grid-Connected PV
System
Abdelmalik Zorig, Barkat Saïd, Mohammed Belkheiri and Assam Zorig (Algeria)
- PES 2.2 PWM Modulation Strategy of Three-phase AC-AC Power Converters Based on
Sparse Indirect Matrix Converter
Salem Rahmani(Tunisia-Canada)

Monday, 15h00-17h00

- PES 2.3 Power Quality Improvement Using VF-DPC-SVM Controlled Three-Phase Shunt Active Filter
Salem Saidi, Rabeh Abbassi and Souad Chebbi (Tunisia)
- PES 2.4 Performance Analysis of DPC for Grid Side Converter Dedicated to Wind Energy Conversion System-Based DFIG
Aicha Daoud, Fatma Ben Salem and Nabil Derbel (Tunisia)
- PES 2.5 Analysis of Bifurcation Behavior in a Current-fed Boost Converter for PV Systems
Meriem Zhioua, Abdelali El Aroudi and Safya Belghith (Tunisia-Spain)
- PES 2.6 Validation of a New Structural Health Monitoring Technique of a Wind Turbine Prototype
Mohamed Amin Ben Hassena, Fehmi Najjar, Slim Choura and Fathi Ghorbel
(Tunisia-USA)

Monday, 15h00-17h00

Session SCI 2 : Energy Harvesting and Transfer

Chairs : Roman Gruden (Germany)
Olfa Kanoun (Germany)

- SCI 2.1 Analytical modeling of a multi-coil system for inductive powering of movable low-power wireless devices
Bilel Kallel, Koushik Sasmal, Olfa Kanoun and Hafedh Trabelsi (Tunisia-Germany)
- SCI 2.2 Investigation of the magneto-mechanical coupling in a magnetoelectric vibration energy converter
Slim Naifar, Sonia Bradai, Christian Viehweger and Olfa Kanoun (Tunisia-Germany)
- SCI 2.3 Novel electronic approach for efficient energy harvesting from Cu₂S/CdS solar cell
Wagah Mohammed (Jordan)
- SCI 2.4 Power Management Strategies In Self-Sufficient Sensor Nodes
Philipp Mehne, Michael Kroener and Peter Woias (Germany)
- SCI 2.5 Novel Concept for a Wireless and Batteryless Brain Implant Array
Tobias Volk, Christian Bentler, Sebastian Stoecklin, Joan Albesa, Adnan Yousaf, Thomas Stieglitz and Leonhard Reindl (Germany)
- SCI 2.6 Comparative Study of Resonant Circuit for Power Transmission via Inductive Link
Ghada Bouattour, Bilel Kallel, Olfa Kanoun and Nabil Derbel (Tunisia-Germany)

Monday, 15h00-17h00

Session CIT 2 : Artificial Intelligence and Hardware Systems I

Chairs : Wagah Mohamed Farman (Jordan)
Nidhal Ben Amor (Tunisia)

- CIT 2.1 A Hybrid Sampling Method for Imbalanced Data
Sami Gazzah, Amina Hechkel and Najoua Essoukri Ben Amara (Tunisia)

Monday, 15h00-17h00

- CIT 2.2 A MATLAB/Simulink-based environment for large-integer HDL designs verification
Nejmeddine Alimi (Tunisia)
- CIT 2.3 Insights Into the Convergence and Steady-State Behaviors of the SLMF and its Variants
Mohammed Mujahid Ulla Faiz and Azzedine Zerguine (Saudi Arabia)
- CIT 2.4 HLS based design of a mixed architecture for H.264/AVC CAVLD
Taheni Damak, Sébastien Bilavarn and Nouri Masmoudi (Tunisia–France)
- CIT 2.5 On the emulation of narrowband powerline communication noise scenario
Souha Souissi, Ons Bel Hadj Rhouma and Chiheb Rebai (Tunisia)
- CIT 2.6 Multi-Robot Task Scheduling and Routing Using Neuro-Fuzzy Control
Kasim M. Al-Aubidy (Jordan)

Monday, 17h00-19h00

SSD Meeting



Tuesday, 17 of March, 2015

Tuesday, 8h30-9h15

Plenary Session 2 :

Chairs : Frederic Mazenc (France)
Nabil Derbel (Tunisia)

- PL 2 From Challenges to Control Solutions in Underwater Robotics: Beyond the Lab Experiments
Ahmed Chemori (France)

Tuesday, 9h15-10h45

Session SAC 4 : Robotic Applications

Chairs : Ahmed Chemori (France)
Yassine Bouteraa (Tunisia)

- SAC 4.1 Control of Nonholonomic Mobile Robot Based on Immersion and Invariance Adaptive Control
Sami El Ferik and Imil Hamda Imran (Saudi Arabia)
- SAC 4.2 Improved Peg-in-Hole (5-Pin Plug) Task: Intended for Charging Electric Vehicles by Robot System Automatically
Mohamad Bdiwi, Alexander Winkler, Michael Jokesch and Jozef Suchý (Germany)

Tuesday, 9h15-10h45

- SAC 4.3 The Sigma-Point Central Difference Smooth Variable Structure Filter Application Into a Robotic Arm
Mohammad Al-Shabi, Mohammed Bani Younis and Khaled Hatamleh . (Jordan)
- SAC 4.4 PSO-CF2: A new method for the path planning of a mobile robot
Safa Ziadi, Mohamed Njah and Mohamed Chtourou (Tunisia)
- SAC 4.5 A Local Obstacle Avoidance Control Law for Mobile Robot Navigation Based on Beam Curvature Method
Faten Cherni, Yassine Bouteraa, Chokri Rekik and Nabil Derbel (Tunisia)

Tuesday, 9h15-10h45

Session SAC 5 : Process Control

Chairs : Mohamed Djemel (Tunisia)
Mohamed Chtourou (Tunisia)

- SAC 5.1 Performances Compared to the Sliding Mode and Gain Scheduling Control Methods of a CSTR Chemical Reactor
Samia Charfedine (Tunisia)
- SAC 5.2 High Gain Observer for Nonlinear System: Application to System of Waste Water Treatment
Amel Barhoumi (Tunisia)
- SAC 5.3 Single-Input T-S Fuzzy Logic Controller for the MPPT of Photovoltaic System
Noureddine Bouarroudj (Algeria)
- SAC 5.4 Explicit Model-Predictive Control of Hybrid Dynamical Systems: Application to a Two-Tank System
Essia Saidi, Yosra Hammi and Ali Douik (Tunisia)
- SAC 5.5 Cascade Unknown Input Observers Applied to a Quadruple Tank Process
Feten Smida, Salim Hadj Said and Faouzi M'Sahli (Tunisia)

Tuesday, 9h15-10h45

Session PES 3 : Automotive Electrical Systems

Chairs : Hafedh Trabelsi (Tunisia)
Fatma Ben Salem (Tunisia)

- PES 3.1 Performance Comparison of PI, SMC and PI-Sliding Mode Controller for EV ..
Arafet Ltifi (Tunisia)
- PES 3.2 Sliding Mode Control of Ship Electric Propulsion System
Habib Dallagi and Samir Nejm (Tunisia)
- PES 3.3 Design of PMSMs Topologies Based on FEA for In-Wheel Motor Hybrid Propulsion Application
Anis Njeh and Hafedh Trabelsi (Tunisia)
- PES 3.4 Energy Management of a FC/UC Hybrid Power Source
Rayhane Koubaa (Tunisia)
- PES 3.5 Cost Optimization of Fuel Cell / Ultracapacitor Powertrain
Intissar Darwich, Islem Lachhab and Lotfi Krichen (Tunisia)

Session CSP 2 : Data Processing

Chairs : Bassel Solaiman (France)
Imène Khanfir Kallel (Tunisia)

- CSP 2.1 Estimating the K-Distribution Parameters Based on Fractional Negative Moments
Chalabi Izzeddine and Amar Mezache (Algeria)
- CSP 2.2 Planar Multi-Classifer Modelling-NN/NN for face recognition
Imen Abroug and Najoua Essoukri Ben Amara (Tunisia)
- CSP 2.3 Image Matching Based on LBP and SIFT Descriptor
Leila Kabbai, Aymen Azaza, Mehrez Abdellaoui and Ali Douik (Tunisia)
- CSP 2.4 Statistical Performance Analysis of a Cryptosystem Based on the Discretized Ikeda System
Olfa Mannai, Rabei Becheikh, Houcemeddine Hermassi and Safya Belghith
..... (Tunisia)
- CSP 2.5 Sea Clutter Modeling in Presence of Thermal Noise Using Beta-Prime Texture Distribution
Chalabi Izzeddine and Amar Mezache (Algeria)
- CSP 2.6 Adaptive Filter for Perceptual Speech Enhancement
Sana Alaya (Tunisia)

Session SCI 3 : Materials and Nano Structures

Chairs : Omar Daoud (Jordan)
Mohamed Masmoudi (Tunisia)

- SCI 3.1 Combined Experimental and Theoretical Study of Structural and Optoelectronic Properties of Polyfuran With Its Oligomers
Ouafae Ninis, Mustapha Abarkan and Mohamed Bouachrine (Morocco)
- SCI 3.2 Low Cost Infrared Sensors Using Processed Single-Walled Carbon Nanotubes ..
Mones Omari (Jordan)
- SCI 3.3 Schottky Barrier Carbon Nanotube Transistors Op-Amp Circuit
Montassar Najari, Wafa Makni and Hekmet Samet (Tunisia)
- SCI 3.4 The Piezoresistive Performance Investigation of Multifunctional Genuine Nanocomposites Thin Films
Abderrahamne Benchirouf, Abdulkadir Sanli and Shanmuganathan Palanisamy, Ayda Bouhamed, Christian Müller (Germany)
- SCI 3.5 Piezoresistive Behavior of Epoxy/MWCNTs Nanocomposites Thin Films for Strain Sensing Application
Ayda Bouhamed, Abderrahamne Benchirouf, Abdulkadir Sanli, Christian Müller and Olfa Kanoun (Germany)
- SCI 3.6 Investigation of Physical Aging of Carbon Nanotube/PEDOT:PSS nanocomposites by Electrochemical Impedance Spectroscopy
Abdulkadir Sanli, Abderrahamne Benchirouf, Jyothi Jennifer Kurian, Saurabh Kumar Choudhary, Soumya Deep Paul, Ayda Bouhamed, Christian Müller and Olfa Kanoun (Germany)

Tuesday, 10h45-11h15



Coffee Break

Tuesday, 11h15-12h00

Keynote Lecture, Session KL-SAC 1 :

Chairs : Jawhar Ghommam (Tunisia)
Magdi S. Mahmoud (Saudi Arabia)

KL-SAC 1 From Hamiltonian Hopf-bifurcation to the control of limit cycles in underactuated mechanical systems
Nahla Khraief haddad (Tunisia)

Tuesday, 11h15-12h00

Keynote Lecture, Session KL-PES 1 :

Chairs : Jamel Belhaj (Tunisia)
Mohamed Elleuch (Tunisia)

KL-PES 1 Computational Intelligence Applications in Power Systems Operation and Control
Mohamed Boudour (Algeria)

Tuesday, 11h15-12h00

Keynote Lecture, KL-CSP-CIT 1 :

Chairs : Kasim Mousa Al-Aubidy (Canada)
Imène Khanfir Kallel (Tunisia)

KL-CSP-CIT 1 Possibilistic Scene Interpretation
Basel Solaiman (France)

Tuesday, 11h15-12h00

Keynote Lecture, Session KL-SCI 1 :

Chairs : Olfa Kanoun (Germany)
Kasim Mousa Al-Aubidy (Jordan)

KL-SCI 1 Technologies and Applications of Photovoltaic Solar Cells
Wagah F. Alazzawi (Jordan)

Tuesday, 12h00-13h20

Session SAC 6 : Sliding Mode Control

Chairs : Nabil Derbel (Tunisia)
Faysal Mnif (Oman)

- SAC 6.1 Stiction Compensation Using PI-Sliding Mode Control for Pneumatic Valve ...
Sami El Ferik, Tri B. Susilo, Muhammad Fahrudin Muna and Imil Hamda Imran (Saudi Arabia)
- SAC 6.2 Second Order Sliding Mode Control for Inverted Pendulum
Olfa Jedda, Jalel Ghabi and Ali Douik (Tunisia)
- SAC 6.3 Discrete Input-Output Second Order Sliding Mode Control Using LMIs Approach
Khadija Dehri, Houda Romdhane and Ahmed Said Nouri (Tunisia)
- SAC 6.4 On the High Order Sliding Mode Control of a R/W Head Track Following in
Hard-Disc-Drives
Manel taktak-Meziou and Nabil Derbel (Tunisia)

Tuesday, 12h00-13h20

Session PES 4 : Power Electronic Converters

Chairs : Mohamed Faouzi Mimouni (Tunisia)
Ghada Boukettaya (Tunisia)

- PES 4.1 Complex Dynamics in a Two-cell DC/DC Buck Converter using a Dynamic Feed-
back Controller
Karama Koubaâ (Tunisia)
- PES 4.2 Study of the Radiated Emissions of an Electric Vehicle Battery Charger during
the Charge Cycle
Hanen Shall and Moncef Kadi (France)
- PES 4.3 The Advantage of Silicon Carbide Material in Designing of Power Bipolar Junc-
tion Transistors
Mehrez Oueslati, Hatem Garrab, Atef Jedidi and Kamel Besbes (Tunisia)

Tuesday, 12h00-13h20

Session CSP 3 : Arabic Handwriting Processing

Chairs : Mohamed Deriche (Saudi Arabia)
Ali Douik (Tunisia)

- CSP 3.1 Towards Unsupervised Learning and Graphical Representation for on-Line Hand-
writing Script
Mariam Gargouri, Sameh Masmoudi Touj and Najoua Essoukri Ben Amara ...
..... (Tunisia)
- CSP 3.2 Restoration of Ancient Colored Documents Foreground/Background Separation
Amal Ghomrassi, Mohamed Aymen Charrada and Najoua Essoukri Ben Amara
(Tunisia)
- CSP 3.3 Arabic Handwritten Characters Recognition Using Deep Belief Neural Networks
Mohamed Elleuch, Najiba Tagougui and Monji Kherallah (Tunisia)

Tuesday, 12h00-13h20

Session SCI 4 : Modeling and Signal Processing

Chairs : Roman Gruden (Germany)
Olfa Kanoun (Germany)

- SCI 4.1 Iterated Square Root Unscented Kalman Filter for State Estimation– CSTR Model
Majdi Mansouri, Onur Avci, Hazem N. Nounou and Mohamed Nounou (Qatar)
- SCI 4.2 Modeling and Simulation of the Phosphoric Unit in Skhira Plant
Sameh Ben Mohamed, Boumedyen Boussaid, Mohamed Naceur Abdelkrim and Charfeddine Tahri (Tunisia)
- SCI 4.3 Bayesian Statistics for Conformity Assessment
Andrea Zanobini (Italy)

Tuesday, 12h00-13h20

Session CIT 3 : Wireless Communications Networks II

Chairs : Kasim Mousa Al-Aubidy (Jordan)
Faouzi Derbel (Germany)

- CIT 3.1 Proof of Concept of a PIC Wireless programmer Interface For Prototyping
Slim Chtourou, Mohamed Kharrat, Nader Ben Amor, Jallouli Mohamed and Mohamed Abid(Tunisia–Japan)
- CIT 3.2 Formal Specification and Verification of Reconfigurable Wireless Sensor Networks

Hanen Grichi, Olfa Mosbahi and Mohamed Khalgui (Tunisia)
- CIT 3.3 Multihop Balanced Energy Clustering for Wireless Sensor Network
Biswanath Dey, Manoj Pant and Sukumar Nandi (India)

Tuesday, 13h20-14h30

Lunch



Tuesday, 14h30-19h00

SSD Conference Tour



Wednesday, 18 of March, 2015

Wednesday, 8h30-9h15

Plenary Session 3 :

Chairs : Abdul-Wahid Saif (Saudi Arabia)
Mohamed Ibnkahla (Canada)

PL 3 Recent Results in Optical Wireless Communications
Mohamed-Slim Alouini (Saudi Arabia)

Wednesday, 9h15-10h45

Session SAC 7 : Fuzzy Logic Control Systems

Chairs : Mohammed Bani Younis (Jordan)
Oussama Derbel (Canada)

SAC 7.1 Modified DTC Control Using Fuzzy Logic Control for Dual Three Phase Induction Machine With Open Phases
Abir Belgacem, Yemna Bensalem and Mohamed Naceur Abdelkrim ... (Tunisia)

SAC 7.2 New Condition of Stabilization for Non Linear Takagi-Sugeno Discrete Time Uncertain System
Ali Bouyahya (Tunisia)

SAC 7.3 Driving Style Assessment Based On the GPS Data and Fuzzy Inference Systems
Oussama Derbel and Rene Jr. Landry (Canada)

SAC 7.4 Real Time Fixed Order Robust H_∞ Orientation Control for 3-DOF Helicopter .
Alaa Chabir, Moussa Boukhnifer, Yassine Bouteraa, Ahmed Chaibet and Jawhar Ghommam (Tunisia-France)

SAC 7.5 Indirect Fuzzy Sliding Adaptive Control law For Nonlinear Systems
Hafedh Abid and Ahmed Toumi (Tunisia)

Wednesday, 9h15-10h45

Session PES 5 : Power Systems II

Chairs : Mohamed Boudour (Algeria)
Lassaad Sbita (Tunisia)

PES 5.1 Modeling and Backword / Forword Power Flow Analysis of Unbalanced Radial Distribution System
Souhir Mabrouk and Adel Kheder (Tunisia)

PES 5.2 Study of Dielectric Behavior of PEN (Polyethylene - Naphtalate) by Dielectric Spectroscopy
Fadila Benabed, Taher Segheir, Saliha Boudraa and Mohammed Belkheiri (Algeria)

PES 5.3 Degradation Analysis of the Lead Acid Battery Plates in the Manufacturing Process
Raja Yahmadi, Kais Brik and Faouzi Ben Ammar (Tunisia)

Wednesday, 9h15-10h45

- PES 5.4 Steady State Stability in Power Systems Including Nonlinear Voltage Dependent Loads
Yosra Welhazi, Tawfik Guesmi and Hsan Hadj Abdallah (Tunisia)
- PES 5.5 Performance Evaluation of Box-Jenkins and Linear-Regressions Methods versus the Study-Period's Variations: Tunisian Grid Case
Adel Bouallegue, Sirine Sallah and Adel Kheder (Tunisia)

Wednesday, 9h15-10h45

Session CSP 4 : Wireless Communication Systems

Chairs : Ines Kammoun Jemal (Tunisia)
Mohamed Slim Alouini (Saudi Arabia)

- CSP 4.1 Optimized Node Classification and Channel Pairing Scheme for RF Energy Harvesting Based Cognitive Radio Sensor Networks
Saleem Aslam and Mohamed Ibnkahla (Canada)
- CSP 4.2 OFDM Systems Performance Enhancement
Omar Daoud, Qadri Hamarsheh and Ahlam Damati (Jordan)
- CSP 4.3 A Real-Time Indoor Localization Platform based on Wireless Sensor Networks
Amir Guidara and Faouzi Derbel (Tunisia-Germany)
- CSP 4.4 Performance Enhancement of Adaptive Beamforming Algorithms Based on a Combination Method
Thamer Jamel (Jordan)
- CSP 4.5 Algebraic Constructions of Quasi-Cyclic LDPC Codes Based on Generators ...
Rui Zhang, Guixia Kang and Ningbo Zhang (China)
- CSP 4.6 Rigorous Analysis Of A High Tc Circular Superconducting Microstrip Patch in a Substrate-Superstrate Configuration
Fadila Benmeddour and Ouarda Assas (Algeria)

Wednesday, 9h15-10h45

Session SCI 5 : Micro Electro Mechanical Systems

Chairs : Kamel Besbes (Germany)
Abdulkader Sanli (Germany)

- SCI 5.1 Behavior Analysis of a 3-axis detection Push-Pull Piezoresistive MEMS Accelerometer
Fares Tounsi, Manoj Kandpal, Ezeddine Ayechi Brahim Mezghani, V. Ramgopal Rao and Mohamed Masmoudi (Tunisia-India)
- SCI 5.2 Mechanical Modeling and Sensitivity Evaluation of an Electrodynamic MEMS Microsensor
Mohamed Hadj Said, Fares Tounsi, Sandeep G. Surya Brahim Mezghani and Mohamed Masmoudi (Tunisia-India)
- SCI 5.3 Accurate Reduced-Order Modeling of MEMS and NEMS Microactuators Under Dynamic Electrostatic Loading and Large Strokes
Sarah Ben Sassi and Fehmi Najar (Tunisia)

Wednesday, 9h15-10h45

- SCI 5.4 Modeling and Design of Very Low-Voltage MEMS Microswitch Using Dynamic Pull-in
Majdi Naoui, Hatem Samaali and Fehmi Najjar (Tunisia)
- SCI 5.5 Electro-Thermal Interactions Modelling in Power MOSFET Transistor
Hamza Kaouach, Ahmed Nahhas, Mohamed Tlig, Amar H. Kabashi and Mohamed Ali Belaid (France-Saudi Arabia-Tunisia)
- SCI 5.6 Design of Wide-Tuning High-Q Differential Active Inductor For Multistandard Applications
Aymen Ben Hammadi, Mongia Mhiri, Fayrouz Haddad, Sehmi Saad and Kamel Besbes (Tunisia-Spain-France)

Wednesday, 9h15-10h45

Session CIT 4 : Artificial Intelligence and Hardware Systems II

Chairs : Bassel Solaiman (France)
Mohamed Ksibi (Tunisia)

- CIT 4.1 Improved Performance of a Brushless DC motor Using Hardware In the Loop Control Technique
Lilia Zouari, Mossaad Ben Ayed and Mohamed Abid (Tunisia)
- CIT 4.2 Improvement of Filtering Systems Through Resource Description Framework ..
Sahraoui Kharroubi, Youcef Dahmani and Omar Nouali (Algeria)
- CIT 4.3 Implementation of a Baseline RISC for the Realization of a Dynamically Reconfigurable Processor
Hajer Najjar, Riad Bourguiba and Jaouhar Mouine (Tunisia)
- CIT 4.4 Representation of Unbalanced Terms in Multi-Valued Logic
Nouha Chaoued and Amel Borgi (Tunisia)
- CIT 4.5 Embedded System for Road Sign Detection Using MicroBlaze
Wajdi Farhat, Hassène Faiedh, Chokri Souani and Kamel Besbes (Tunisia)
- CIT 4.6 Design and implementation of an enhanced on chip mesh router
Manel Langar, Riad Bourguiba and Jaouhar Mouine (Tunisia)

Wednesday, 10h45-11h15

Coffee Break



Wednesday, 11h15-12h00

Keynote Lecture, Session KL-SAC 2 :

Chairs : Nahla Khraief Haddad (Tunisia)
Ahmed Chemori (France)

- KL-SAC 2 Control and Optimization of Distributed Generation Systems
Magdi S. Mahmoud (Saudi Arabia)

Wednesday, 11h15-12h00

Keynote Lecture, Session KL-PES 2 :

Chairs : Mohamed Boudour (Algeria)
Lotfi Krichen (Tunisia)

KL-PES 2 Renewable Energy and Water Systems Designed and Managed as an Integrated Efficient System
Jamel Belhadj (Tunisia)

Wednesday, 11h15-12h00

Keynote Lecture, Session KL-CSP-CIT 2 :

Chairs : Mohamed Slim Alouini (Saudi Arabia)
Ines Kammoun Jemal (Tunisia)

KL-CSP-CIT 2 POPS-OFDM: Ping-pong Optimized Pulse Shaping OFDM for 5G Cellular Systems and Beyond
Mohamed Siala (Tunisia)

Wednesday, 11h15-12h00

Keynote Lecture, Session KL-SCI 2 :

Chairs : Wagah F. Alazzawi (Jordan)
Joerg Himmel (Germany)

KL-SCI 2 Monitoring of Land Degradation From Space: an Integrated Approach of Remote Sensing and In-Situ Measurements
Moncef Bouaziz (Germany)

Wednesday, 12h00-13h20

Session SAC 8 : Fractional Systems

Chairs : Rim Jallouli (Tunisia)
Amina Ben Hmed (Tunisia)

SAC 8.1 Stabilizing Fractional Order Controller Design for First and Second Order Systems
Amina Ben Hmed, Messaoud Amairi and Mohamed Aoun (Tunisia)
SAC 8.2 Multi-Objective Optimization Based Design of Fractional PID Controller
Bchira Saidi, Messaoud Amairi, Slaheddine Najar and Mohamed Aoun (Tunisia)
SAC 8.3 A Direct Fractional Order Bias Eliminated Least Squares Method for the Fractional Closed-Loop System Identification
Zaineb Yakub, Manel Chetoui, Messaoud Amairi and Mohamed Aoun (Tunisia)
SAC 8.4 Analytic Approach to Design PID Controller for Stabilizing Fractional Systems With Time Delay
Wiem Azaiez, Manel Chetoui and Mohamed Aoun (Tunisia)

Wednesday, 12h00-13h20

Session PES 6 : Electric Machine Design

Chairs : Hafedh Trabelsi (Tunisia)
Adel Khedher (Tunisia)

- PES 6.1 Design and Optimization of PMSM With Outer Rotor For Electric Vehicle
Ali Mansouri, Hejra Msadek, Hafedh Trabelsi and Stéphane Brisset (Tunisia-France)
- PES 6.2 Co-Simulation of Induction Motor Fed by PWM Inverter Under a Broken Bar
Fault
Hafedh Trabelsi, Wiem Zaabi and Yemna Bensalem (Tunisia)
- PES 6.3 Reluctance Network Model for Linear Switched Reluctance Motor
El Manaa Barhoumi, Frédéric Wurtz, Chillet Christian and Boujemaâ Ben Salah
..... (Tunisia-France)

Wednesday, 12h00-13h20

Session CSP 5 : Architecture and Implementation for Communication Systems

Chairs : Faouzi Derbel (Germany)
Omar Daoud (Jordan)

- CSP 5.1 An Ultra Low Power Wake up Receiver with Flip Flops Based Address Decoder
Yesmin Ammar, Sadok Bdiri and Faouzi Derbel (Tunisia-Germany)
- CSP 5.2 Synthesis of Total Harmonic Distortion and Interference Between Stereo Spec-
trum and RDS Process
Youssef Oudhini, Fahmi Ghozzi and Lassaad Sbita (Tunisia)
- CSP 5.3 Method of Auxiliary Sources for the Electromagnetic Scattering Problem From
an Array of Different Cylinders
Sami Hidouri (Tunisia)
- CSP 5.4 An Empirical Model of the SBX Daughter Board Output Power Driven by USRP
N210 and GNU Radio Based Software Defined Radio
Rafik Zitouni and Stefan Ataman (France)

Wednesday, 12h00-13h20

Session SCI 6 : Impedance Spectroscopy

Chairs : Joerg Himmel (Germany)
Moncef Bouaziz (Germany)

- SCI 6.1 Low-Cost Multifunctional Sensor System for Online Determination of Aqueous
Solutions
Roman Gruden and Olfa Kanoun (Germany)
- SCI 6.2 Temperature Effect on the Complex Conductivity of Adblue
Ahmed Fendri and Olfa Kanoun (Germany)
- SCI 6.3 Finite Element Simulation to Improve the Sensitivity of a MIT
Maral Heidary Dastjerdi, Olfa Kanoun and Joerg Himmel (Germany)

Wednesday, 12h20-14h20



Lunch

Wednesday, 15h00-17h00

Session SAC 9 : Fault Detection and Diagnosis

Chairs : Magdi S. Mahmoud (Saudi Arabia)
Hadile Soltani (Tunisia)

- SAC 9.1 Robust Fault Tolerant Control for T-S Fuzzy System With Unmeasurable Premise Variables: LMI Approach
Imen Haj Brahim, Maha Bouattour, Driss Mehdi and Mohamed Chaabane (Tunisia-France)
- SAC 9.2 Modeling, Intelligent Diagnosis of Faults and Command with a Dspace: Application on a Pumping Station under Pressure
Mejri Mohamed radhouane, Abderrahmen Zaafour and Chaari Abdelkader (Tunisia)
- SAC 9.3 Robust Diagnosis for Hybrid Dynamical Systems
Asma Takrouni, Labidi Islem, Nadia Zanzouri and Mekki Ksouri (Tunisia)
- SAC 9.4 Fault Detection in Wind Turbine System Using Wavelet Transform: Multi-Resolution Analysis
Tahani Bakir (MACS Research Unit, ENIG, Tunisia), Tahani Bakir, Boumedyen Boussaid, Rim Hamdaoui, Mohamed Naceur Abdelkrim and Christophe Aubrun (Tunisia-France)
- SAC 9.5 On Fault Tolerant Control of Mobile Robot based on Fast Adaptive Fault Estimation
Olfa Hrizi, Boumedyen Boussaid, Ahmed Zouinkhi and Mohamed Naceur Abdelkrim (Tunisia-France)
- SAC 9.6 H_∞ Fault Tolerant Control for Uncertain State Time-delay Systems
Hadile Soltani, Saloua Bel Hadj Ali Naoui, Abdelouahab Aitouche, Mohamed Naceur Abdelkrim and Rafika Elharabi (Tunisia-France)
- SAC 9.7 Fault Detection and Estimation Based on Full Order Unknown Input Hamiltonian Observers
Manel Atitallah (Tunisia)

Wednesday, 15h00-17h00

Session SAC 10 : Model Predictive Control

Chairs : Ahmed Chemori (France)
Mohammed Bani Younis (Jordan)

- SAC 10.1 Automatic Model Predictive Control Implementation in a High-Performance Microcontroller
Ibtissem Malouche, Amira Kheriji Abbes and Faouzi Bouani (Tunisia)

Wednesday, 15h00-17h00

- SAC 10.2 Global Optimization Method for Model Predictive Control Based on Wiener Model
Hajer Degachi, Ksouri Moufida and Chagra Wassila (Tunisia)
- SAC 10.3 Robust Predictive Controller Based on an Uncertain Fractional Order Model ..
Aymen Rhouma (Tunisia)
- SAC 10.4 Impulse Fuzzy Model Based Predictive Control For Nonlinear Systems
Latifa Dalhoumi, Mohamed Chtourou and Mohamed Djemel (Tunisia)
- SAC 10.5 Decoupled Multimodel Predictive Control Based on Multi-Observer for Discrete-Time Uncertain Nonlinear Systems
Samah Ben Atia, Anis Messaoud and Ridha Ben Abdennour (Tunisia)
- SAC 10.6 Multi-Objective Predictive Control Using Discrete TS Fuzzy Systems and a Modified Dynamic Neighborhood PSO
Ali Thamallah, Sakly Anis and Faouzi M'Sahli (Tunisia)

Wednesday, 15h00-17h00

Session PES 7 : Electric Machines Modeling and Control

Chairs : Fatma Ben Salem (Tunisia)
Ghada Boukettaya (Tunisia)

- PES 7.1 SVPWM Control Strategy to Minimize Circulation Harmonic Currents for VSI Fed Double Star Induction Machine
Hajer Kouki, Mouldi Benfredj and Habib Rehaoulia (Tunisia)
- PES 7.2 Performance Comparison For Loss Optimization Techniques Of FOC Induction Motor Drive
Wahiba Khemiri, Anis Sakly and Mohamed Faouzi Mimouni (Tunisia)
- PES 7.3 FPGA Implementation of the Direct Torque Control with Constant Switching Frequency of Induction Motor
Soufien Gdaim, Saber Krim, Abdellatif Mtibaa and Mohamed Faouzi Mimouni .
..... (Tunisia)
- PES 7.4 Multi-Model Modeling Methods Based on Novel Clustering Strategy and Comparative Study: Application to Induction Machines
Aicha Abid, Mouna Ben Hamed and Lassâad Sbita (Tunisia)
- PES 7.5 High Order Sliding Mode Observer for Inter-Turn Short-Circuit Fault Detection in Induction Machine
Amal Guezmil, Hanen Berriri, Anis Sakly and Mohamed Faouzi Mimouni
..... (Tunisia)
- PES 7.6 Open-End Stator Winding Permanent Magnet Synchronous Machine with Salient-poles
Abdelmonoem Nayli, Sami Guizani, Faouzi Ben Ammar (Tunisia)

Session CSP 6 : Biotechnology

Chairs : Mohamed Ksibi (Tunisia)
Kasim Mousa Al-Aubidy (Jordan)

- CSP 6.1 Low Complexity and Efficient Architecture of 1D-DCT based Cordic-Loeffler for Wireless Endoscopy Capsule
Nedra Jarray, Abdelkrim Zitouni and Majdi Elhaji (Tunisia)
- CSP 6.2 Skin Lesion Segmentation Using the D-S Evidence Theory Based on the FCM Using Feature Parameters
Olfa Trabelsi and Mounir Sayadi (Tunisia)
- CSP 6.3 A New Approach Based on the Serological Tests for the Diagnosis of Tuberculosis in Cattle
Hanen Sahli, Mohamed Fethi Diouani, Lotfi Tlig, Makram Essafi and Mounir Sayadi (Tunisia)
- CSP 6.4 Features Selection for an Optimization of EEG Classification
Ines Homri, Slim Yacoub and Nouredine Ellouze (Tunisia)

Session SCI 7 : Measurement Systems

Chairs : Joerg Himmel (Germany)
Roman Gruden (Germany)

- SCI 7.1 A Real Time Environmental Monitoring for Smart City Surveillance Based GUI on Android Platform
Abdelbacet Ghrob and Abdennaceur Kachouri (Tunisia)
- SCI 7.2 Implementation of a Coulomb Counting Algorithm for SOC Estimation of Li-Ion Battery for Multimedia Applications
Ines Baccouche, Asma Mlayah, Sabeur Jemmali, Bilal Manai and Najoua Essoukri Ben Amara (Tunisia)
- SCI 7.3 Model Based Conductance Measurements Design for Thermally Modulated Sensor Arrays
Liwa Wu and Christian Langen (Germany)
- SCI 7.4 New Design of 3-10 GHz Low Noise Amplifier for UWB Receivers
Madihah Hajri, Dalenda Bissa and Hekmet Samet (Tunisia)
- SCI 7.5 Digital Inclinator for Joint Angles Measurements with a Real-time 3D-Animation
Mahdi Zabat, Nazim Ouadahi, Arezki Youyou, Amina Ababou and Nouredine Ababou (Algeria)
- SCI 7.6 Air Pollution Monitoring System Using LabVIEW
Souhir Bedoui, Hekmet Samet, Abdennaceur Kachouri and Sami Gomri (Tunisia)
- SCI 7.7 FPGA Pulse Mode Implementation of a Gaussian Fuzzy C-Means Algorithm ..
Mohamed Krid, Marwa Karray and Dorra Masmoudi (Tunisia)

Wednesday, 17h00-19h00



Free activities

Wednesday, 21h00



Conference Dinner

Thursday, 19 of March, 2015

Thursday, 8h30-10h45

Session SAC 11 : Nonlinear Systems, Analysis and Control

Chairs : Frédéric Mazenc (France)
Moussa Boukhnifer (France)

- SAC 11.1 Minimum Variance Control based on an Uncertain Neural Networks and Global Optimization Method
Ahmed Mnasser and Faouzi Bouani (Tunisia)
- SAC 11.2 Backstepping-based Output Feedback Control of an Electro-hydraulic Servo System
Sami El Ferik, Babajide Ayinde, Salim Ibrir and Moez Feki
..... (Saudi Arabia-Tunisia)
- SAC 11.3 Neural Network-Based Adaptive Control For Induction Motors
Hamou Aitabbas, Mohammed Belkheiri and Boubakeur Zegnini (Algeria)
- SAC 11.4 Backstepping Control for a Quadruple Tank Process Based on Adaptive Observer
Amani Turki, Salim Hadj Said and Faouzi M'Sahli (Tunisia)
- SAC 11.5 Robust Pole Assignment for the Control of Uncertain Nonlinear Discrete-time Systems
Amira Aydi, Mohamed Djemel and Mohamed Chtourou (Tunisia)
- SAC 11.6 Asymptotical Stability Criterion for a Class of Nonlinear Neutral Systems with Mixed Time-Varying Delays
Ilyes Mazhoud (Tunisia)
- SAC 11.7 Tracking Control of Nonlinear Systems via Backstepping Design
Ameur Sassi (Tunisia)
- SAC 11.8 Strong Stabilization of The Non-Linear Pendubot System
Abdulwahid A. Al-Saif (Saudi Arabia)

Thursday, 8h30-10h45

Session PES 8 : Renewable Energy Systems

Chairs : Jamel Belhaj (Tunisia)
Wagah F. Alazzawi (Jordan)

- PES 8.1 Comparison of MPPT Algorithms for DC-DC Boost Converters Based PV Systems Using Robust Control Technique and Artificial Intelligence Algorithm
Radhia Garraoui (Tunisia)
- PES 8.2 Decentralized Charging Infrastructure for the E-Mobility
Martin Leutelt, Viktor Wolff and Andreas Pretschner (Germany)
- PES 8.3 A New Power Management Algorithm for a Stand-Alone Hybrid System Supplying a Desalination Unit
Mariem Smaoui and Lotfi Krichen (Tunisia)
- PES 8.4 Design Verification Based on Hardware-in-the-Loop Simulation for Photovoltaic System
Hanen Abbes, Mossaad Ben Ayed and Mohamed Abid (Tunisia)
- PES 8.5 Small Signal Modeling and Stability Analysis of Wind Turbine with PMSG Connected to the Grid
Maryam Chouket (Tunisia)
- PES 8.6 Action on the Dynamic Behavior of a Washing Machine in a Renewable Multi-Agent System
Randa Kallel, Ghada Boukettaya and Lotfi Krichen (Tunisia)

Thursday, 8h30-10h45

Session CSP 7 : Speech Processing

Chairs : Thamer Jamel (Jordan)
Ahmed Ben Hamida (Tunisia)

- CSP 7.1 Implementation of Speech Synthesis Based on HMM using PADAS Database ..
Mohamed khalil Krichi and Adnan Cherif (Tunisia)
- CSP 7.2 A Novel Approach for Auditory Spectrum Enhancement to Improve Speech Recognition's Robustness
Khaireddine Salhi (Tunisia)
- CSP 7.3 Using Single Log-Gabor Filter and Reassignment Method for Audio Classification Applications
Sameh Souli (Tunisia)
- CSP 7.4 Comparison Between GMM-SVM Sequence Kernel and GMM: Application to Speech Emotion Recognition
Imen Trabelsi (Tunisia)

Session SCI 8 : Analog Circuit Design

Chairs : Abderrahamne Benchirouf (Germany)
Brahim Mezghani (Tunisia)

- SCI 8.1 Design of a Tri-Band Microstrip Filter for GPS Receiver
Ali Othman, Rim Barrak and Mohamed Mabrouk (Tunisia)
- SCI 8.2 Low Power and High Gain Folded Cascode OTA
Intissar Toihria and Thierry Tixier (France)
- SCI 8.3 A 160- μ W, Ring Digitally Controlled Oscillator for UHF/VHF Nano-satellites
Broadcasting Tuners in 90nm CMOS Process
Sehmi Saad, Mongia Mhiri, Aymen Ben Hammadi and Kamel Besbes (Tunisia)
- SCI 8.4 A Novel Low-Voltage Low-Power CCII Based on Super Class AB CMOS OTA
Cells and Filter Application
Thouraya Ettaghzouti, Nejib Hassen and Kamel Besbes (Tunisia)
- SCI 8.5 Low Voltage Low Power Analog Circuit Design OTA Using Signal Attenuation
Technique in Universal Filter Application
Karima Garradhi, Nejib Hassen and Kamel Besbes (Tunisia)
- SCI 8.6 Two Stage CMOS Operational Transconductance Amplifier for Front-End Elec-
tronics Design using Multiobjective Genetic Algorithms
Abdelghani Dendouga and Slimane Oussalah (Algeria)
- SCI 8.7 Novel Second Generation Current Conveyor and Voltage Mode Universal Filter
Application
Thouraya Ettaghzouti, Nejib Hassen and Kamel Besbes (Tunisia)
- SCI 8.8 Two Stage CMOS Operational Transconductance Amplifier for Front-End Elec-
tronics Design using Multiobjective Genetic Algorithms
Amel Neifar, Ghazi Bouzid and Mohamed Masmoudi (Tunisia)

Session CIT 5 : Cryptography and Security

Chairs : Bassel Solaiman (France)
Imène Kallel Khanfir (Tunisia)

- CIT 5.1 Efficient FPGA Hardware Implementation of Secure Hash Function SHA-
256/Blake-256
Fatma Kahri (Tunisia)
- CIT 5.2 Chaos-based Designing of a Highly Nonlinear S-box using Boolean Functions ..
*Ramzi Guesmi, Mohamed Alamine Ben Farah, Abdennaceur Kachouri and
Mounir Samet* (Tunisia)
- CIT 5.3 A New Approach for Encryption System Based on Block Cipher Algorithms and
Logistic Function
Fatma Sbiaa, Medien Zeghid, Adel Baganne and Rached Tourki (Tunisia– Saudi
Arabia–France)
- CIT 5.4 Proposed Efficient Arithmetic Operations Architectures for Hyperelliptic Curves
Cryptosystems (HECC)
Anissa Sghaier, Medien Zeghid and Machhout Mohsen . (Tunisia–Saudi Arabia)

Thursday, 8h30-10h45

- CIT 5.5 AES IP for Hybrid Cryptosystem RSA-AES
Nadjia Anane and Mohamed Anane (Algeria)
- CIT 5.6 SHA-2 Hardware core for Virtex-5 FPGA
Mohamed Anane and Nadjia Anane (Algeria)

Thursday, 10h45-12h00



Closure

We are looking forward to seeing you in Leipzig, Germany, during the 13th International Multi-Conference on Systems, Signals & Devices (SSD'16) in March 2016.

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SSD'15 : Multi-Conference Program

	08 h 30 – 09 h 15	09 h 15 – 10 h 00	10 h 00 – 10 h 45	10 h 45 – 11 h 15	11 h 15 – 12 h 00	12 h 00 – 13 h 20	13 h 20 – 14 h 30	15 h 00 – 17 h 00	17h 00 – 19 h 00	19 h 00	
Sunday March, 15								Registration for foreign attendees			
Monday March, 16	Registration		Official Opening	Coffee Break	Plenary Session 1	Oral Sessions SAC 1 & PES 1 CSP1 & SCI 1 CIT 1	Lunch	Oral Sessions SAC 2 & SAC 3 PES 2 & SCI 2 CIT 2	SSD Meeting		
Tuesday March, 17	Plenary Session 2	Oral Sessions SAC 4 & SAC 5 PES 3 & CSP 2 SCI 3		Coffee Break	Keynote Lectures L1	Oral Sessions SAC 6 & PES 4 CSP 3 & SCI 4 CIT 3	Lunch	SSD'15, Social Program			
Wednesday March, 18	Plenary Session 3	Oral Sessions SAC 7 & PES 5 CSP 4 & SCI5 CIT 4		Coffee Break	Keynote Lectures L2	Oral Sessions SAC 8 & PES 6 CSP 5 & SCI 6 Keynote Lecture CIT	Lunch	Oral Session SAC 9 & SAC 10 PES 7 & CSP 6 SCI 7	Workshop Organized by ISBS Sfax	Conference Dinner at 21h00	
Thursday March, 19	Oral Session SAC 11 & PES 8 CSP 7 & SCI 8 CIT 5			Closure		Post Conference Program					