

# The 18<sup>th</sup> International conference on Sciences and Techniques of Automatic control and computer engineering STA'2017

December 21-23, 2017 Monastir, Tunisia



## Honorary Chairs

Mohamed BOUSSAK, France  
Mohamed KAMOUN, Tunisia

## General Chairs

Abdelwaheb AITOUCHE, France  
Mohamed CHAABANE, Tunisia  
Fernando TADEO, Spain

## Co-General Chairs

Hafedh ABID, Tunisia  
Yassine KOUBAA, Tunisia  
Driss MEHDI, France

## Program Chairs

Ahmed TOUMI, Tunisia

## Co-Chairs Program Committee

Messaoud AMAIRI, Tunisia  
Boudour AMMAR, Tunisia  
Abdessattar BEN AMOR, Tunisia  
Chokri BEN AMAR, Tunisia  
Abdellah BENZAOUJA, Morocco  
Mohamed BOUDOURE, Algeria  
Abdelkader CHAARI, Tunisia  
Faycal DJEFFAL, Algeria  
Ahmed EL HAJJAJI, France  
Lilia ELAMAROUI, Tunisia  
Mondher FARZA, France  
Moez FEKI, Tunisia  
Farhat FNAIECH, Tunisia  
Mourad LOULOU, Tunisia  
Faouzi M'SAHLI, Tunisia  
Brahim MEZGHANI, Tunisia  
Hassen MNIF, Tunisia  
Sandrine MOREAU, France  
Mohamed N. ABDELKRIM, Tunisia  
Horst SCHULTE, Germany  
Mansour SOUISSI, Tunisia  
Jean-Marc THIRIET, France  
Amer R. ZEREK, Libya

## Invited Sessions Chairs

Ridha BEN ABDENNOUR, Tunisia  
Said DRID, Algeria  
Samira KAMOUN, Tunisia

## Special Session Chairs

Kamel ABDERRAHIM, Tunisia  
Samir LADACI, Algeria  
Larbi CHRIFI-ALAOUI, France

## Tutorials Chairs

Mohamed BENSLIMA, Tunisia  
Khaled BELARBI, Algeria  
Tarak DAMAK, Tunisia

## Workshops Chairs

Sofien HAJJI, Tunisia  
Ahmed NOURI SAID, Tunisia  
Hatem TRABELSI, Tunisia  
Omar KAHOUILI, Tunisia

## Publicity Chairs

Youssef A. ZORGANI, Tunisia  
Hamdi GASSARA, Tunisia  
Amine TRABELSI, Tunisia

## Industrial relations Chairs

Moez ALLOUCHE, Tunisia  
Khaled ELLEUCH, Tunisia  
Tarak MAATOUG, Tunisia

## Publications Chair:

Habib KAMOUN, Tunisia  
Hichem KARRAY, Tunisia  
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## Organization Chairs

Karim DAHECH, Tunisia  
Maher KHARRAT, Tunisia  
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## Local organization committee

Assil AYADI, Tunisia  
Mohamed BAHLOUL, Tunisia  
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Mariem GHAMGUI, Tunisia  
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Yosra MASSAOUDI, Tunisia



The 18<sup>th</sup> international conference on Sciences and Techniques of Automatic control and computer engineering (STA'2017) will be held on December 21-23, 2017, in Monastir, Tunisia. Located at the vital center of Tunisia, Opening on the Mediterranean, Monastir profits from a privileged central position within the great area of the Tunisian Sahel.

The conference STA'2017 is organized by the Laboratory Lab-STA (Sfax, Tunisia) with the participation of several Laboratories such as, LIAS (Poitiers, France), CRISTAL (Lille, France), CReSTIC (Reims, France), MIS (Amiens, France), LSIS (Marseille, France), LAAS (Toulouse, France), LISIER (ENSI-Tunis, Tunisia) and the University of Valladolid (Spain). The conference is financially supported by the ATTNA association (Tunisia) and technical Co-sponsorship IEEE Tunisia Section, IEEE SSCS Tunisia Chapter, IEEE CSS Tunisia Chapter, IEEE RAS Tunisia Chapter, IEEE CAS Tunisia Chapter and IEEE SPS Tunisia Chapter.

STA'2017 is intended as an international forum where an effective exchange of knowledge and experience amongst active researchers in various theoretical and applied areas of automatic control and computer engineering can take place. Participation of engineers and other scientists from industry is particularly welcome. This event will provide the opportunity, for worldwide researchers and practitioners, to share together the latest developments and trends in systems and control. Both theoretical and applied papers are welcome for submission to this event. Keynote speeches are to be conducted by experts.

The conference STA'2017 will have different types of sessions: plenary lectures (given by leading experts in the field), regular oral sessions, invited sessions, etc.

All accepted and presented papers will be published in conference proceedings and will be "submitted to IEEE Xplore® — the IEEE Digital Library" as IEEE reserves the right to not publish any proceedings that do not meet IEEE's quality standards.

An exhibition will also be organized in which automation companies present their latest advancements. Contact the organization Co-Chairs for details.

## Topics

The conference STA'2017 publishes papers on theoretical analysis, experimental studies and applications in the field of automatic control and computer engineering. This conference is, therefore, not only a forum where researchers, scientists and engineers can exchange their knowledge and experience, but also serves as an educational channel for students and others who would like to discuss the latest research and developments, and to learn more about the new trends in this field of study. The Topics of interest include, but are not limited to:

- Advanced Control Systems Engineering
- Advances in Software Engineering
- Automatic Control Systems
- Automation and Supervision Systems
- Circuits, Electronics & Micro-electronics
- Control and Embedded Systems
- Control of Electrical Vehicles
- Control of Robotic Systems
- Control, Automation and Diagnosis
- Fault Tolerant Control Systems
- Fractional-Order Systems and Controls
- Intelligent Systems Control
- Mechatronics and Robotics Systems
- Modeling of Engineering Systems
- Networks and Electrical Machines
- Nonlinear Theory and Application
- Power Electronics and Control
- Renewable Energy Conversion
- Robust and Adaptive Control
- Signal and Image Processing
- Sliding Mode Control
- Smart City Control
- Smart Grid Power System
- TeleCommunication Engineering

## Paper submission

The manuscript to be submitted to the conference should contain sufficient details including key concepts and novel features of the work. It should include the title, authors, mailing addresses, affiliations and e-mail addresses. The format of the paper must be prepared according to the given author instructions. All papers must be written in English. The authors are invited to submit the full version of their manuscripts online through the conference STA'2017 web site at: [www.sta-tn.com](http://www.sta-tn.com).

Proposals for **Invited Sessions & Special Sessions** in related areas are also solicited and should be submitted through e-mail to the Invited Session Chairs. Authors that wish to organize an Invited Session should first contact the Invited Session Co-Chairs.

Proposals for **Tutorials & Workshops** should contain the title of the session, the list of speakers, and extended summaries (2000 words) of their presentations. Proposals must be sent by e-mail to the corresponding Co-Chairs.

Special issues of selected papers will be published in **IJ-STA** (International Journal of Sciences and Techniques of Automatic control [www.sta-tn.com/IJ-STA.htm](http://www.sta-tn.com/IJ-STA.htm)), **JES** (Journal of Electrical Systems <http://journal.esrgroups.org/jes/>) and **IJAC** (International Journal of Automation and Computing <http://www.ijac.net/EN/volumn/home.shtml>)

## Registration fees

- \* Academic from Tunisia: **650<sup>DT</sup>**
- \* Academic from the Maghreb Union: **350 € (330 € IEEE Member)**
- \* Industrial from Tunisia: **700<sup>DT</sup>**
- \* Academic from other countries: **420 € (400 € IEEE Member)**

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