The 19th International conference on Sciences and Techniques of Automatic control and computer engineering STA'2019

March 24-26, 2019 Sousse, Tunisia

Honorary Chairs
Mohamed BOUSSAK, France
Mohamed KAMOUN, Tunisia
General Chairs
Mohamed CHAABANE, Tunisia
Driss MEHDI, France
Fernando TADEO, Spain
Program Chairs
Abdelwaheb AITOUCHE, France
Yassine KOUBAA, Tunisia
Horst SCHULTE, Germany
Invited & Special Sessions Chairs
Hafedh ABID, Tunisia
Larbi CHRIFI-ALAOUI, France
Tutorial & Workshop Chairs
Abdelkader CHAARI, Tunisia
Nouri MASMOUDI, Tunisia
International Program Committee
Pedro ALBERTOS, Spain
Olivier BACHELIER, France
Abderazek BEN ABDALLAH, Japan
Mohammed CHADLI, France
Vincent COCQUEMPOT, France
Yasser Gaber DESSOUKY, Egypt
Faycal DJEFFAL, Algeria
Mohamed DJEMAI, France
Said DRID, Algeria
Ahmed EL HAJJAJI, France
Mondher FARZA, France
Jean Paul GAUBERT, France
Yousef JARADAT, Jordan
Mourad KCHAOU, Saudi Arabia
Olena KUZMYCH, Ukraine
Samir LADACI, Algeria
Didier MAQUIN, France
Ricardo A. R. MENDOZA, Mexico
Guillaume MERCERE, France
Fouad MESQUINE, Marroco
Radhi MHIRI, Canada
Sandrine MOREAU, France
Mohamed MSAAD, France
Alessandro do N. VARGAS, Brazil
Mohand OUHROUCHE, Canada
Amer R. ZEREK, Libya
Local Program Committee
Mohamed N. ABDELKRIM, Tunisia
Kamel ABDERRAHIM, Tunisia
Messaoud AMAIRI, Tunisia
Naceur BENHADJ BRAIEK, Tunisia
Ridha BEN ABDENNOUR, Tunisia
Abdessattar BEN AMOR, Tunisia
Joseph HAGGEGE, Tunisia
Mohamed BEN SLIMA, Tunisia
Mohamed CHTOUROU, Tunisia
Tarak DAMAK, Tunisia
Nabil DERBEL, Tunisia
Abdennaceur KACHOURI, Tunisia
Samira KAMOUN, Tunisia
Hichem KARRAY, Tunisia
Adel KHEDHER, Tunisia
Lotfi KRICHEN, Tunisia
Mekki KSOURI, Tunisia
Mourad LOULOU, Tunisia
Faouzi M'SAHLI, Tunisia
Brahim MEZGHANI, Tunisia
Hassene MNIF, Tunisia
Chokri REKIK, Tunisia
Mansour SOUISSI, Tunisia
Ahmed TOUMI, Tunisia
Organization, Publication & Finance Chair
Maher KHARRAT, Tunisia
Co- Publication Chair
Habib M. KAMMOUN, Tunisia
Co-Organization Chairs
Moez ALLOUCHE, Tunisia
Karim DAHECH, Tunisia
Mariem GHAMGUI, Tunisia
Badreddine LOUHICHI, Tunisia
Publicity Chairs
Youssef Z. AGREBI, Tunisia
Hamdi GASSARA, Tunisia
Sofien HAJJI, Tunisia
Neila MEZGHANI, Tunisia
Industrial Relations Chairs
Khaled ELLEUCH, Tunisia
Tarak MAATOUG, Tunisia
Amine TRABELSI, Tunisia
Moncef TRIKI, Tunisia

The 19th international conference on Sciences and Techniques of Automatic control and computer engineering (**STA'2019**) will be held on March 24-26, 2019, Sousse, Tunisia. Opening on the Mediterranean, Sousse profits from a privileged central position within the great area of the Tunisian Sahel.

The conference **STA'2019** is organized by the Laboratory Lab-STA (Sfax, Tunisia) with the participation of several Laboratories such as, LIAS (Poitiers, France), MIS (Amiens, France), LSIS (Marseille, France), LAAS (Toulouse, France), LETI (Sfax, Tunisia), 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 CSS Tunisia Chapter, IEEE SSCS Tunisia Chapter, IEEE CAS Tunisia Chapter and IEEE SPS Tunisia Chapter.

STA'2019 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'2019** 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'2019** 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'2019** web site at: **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), **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)

Schedule & Deadlines for submission

Regular paper, invited session, and workshop proposals: ~~December 23th 2018~~, January 27th, 2019
Notification of acceptance / rejection: February 03rd, 2019
Submission of Final Manuscripts: February 17th, 2019

STA'2019, ENIS, BP 1173, 3038 Sfax, Tunisia, **Phone: (+216) 74 274 088 Fax. : (+216) 74 275 595**
Contact : conference.sta@gmail.com; info@sta-tn.com