The International Symposium on Theoretical Electrical Engineering (ISTET) is traditionally devoted to research and education in theory and applications of electromagnetic fields, electrical and electronic circuits and systems as well as signal processing, design and control of electromagnetic devices, and others.

The XX edition of the International Symposium on Theoretical Electrical Engineering (ISTET-2019) will be held at the Technical University of Sofia, Bulgaria, from 21st to 24th July 2019.

As always in this conference series, we invite and encourage contributions from both academia and industry. No matter whether you are an experienced professional or a novice in innovative electrical engineering — we are sure that the ISTET symposium will be of benefit to you.

Objectives

The biannual ISTET symposium series is devoted to research and education in theory and applications of electromagnetic fields, electrical and electronic circuits, signal processing, and design and control of electromagnetic systems.

Topics of the Symposium

- Electromagnetic Fields
- Fundamental aspects of field theory, Low and high frequency fields, Numerical algorithms, Optimization problems
- Circuit and System Theory
- Linear and nonlinear circuits, System theory, Nonlinear aspects of power systems
- Signal Processing and Identification
- Advanced methods of signal processing, Mixed description of fields/circuits and signals, Signal processing algorithms, Nonlinear dynamics and signal processing, Classical and non-classical aspects in identification, Biomedical signal processing
- Theoretical Concepts
- Advanced mathematical concepts in networks and fields, Nonlinear control systems, Mathematical modeling aspects, Multivariable large-scale systems
- Applications
- Nondestructive testing and evaluation, Smart magnetic materials, Microelectronic circuits, Mobile communication aspects, Control systems technology, Electric drives and power systems, Electromagnetic compatibility, Sensors and actuators
- Innovative Educational Aspects
- New ideas in teaching fields, Multimedia and internet aspects in education, Modern information science teaching

Important Dates

- March 31, 2019 - Deadline of short papers submission
- May 1, 2019 - Notification of short paper acceptance
- May 19, 2019 - Deadline for early registration
- July 21, 2019 - Conference begin
- July 24, 2019 - Full paper submission

Full Papers

Authors of accepted and registered papers will be encouraged to submit a full version (max. 8 pages) of their paper by the end of the symposium. The paper should be uploaded using https://easychair.org/conferences/?conf=istet2019 in the same format, as the digest, given above.

After a review procedure, a number of papers will be selected by the editorial board for publication in the Special Issue of COMPETE (The International Journal for Computation and Mathematics in Electrical and Electronic Engineering) in 2020, issue 3. http://www.compete-journal.com/journal/compete. The special issue will have the title: “Special Issue on Theoretical Electrical Engineering”.

Another part of papers will be published in the peer reviewed scientific journal "ELECTROTECHNICA-ELEKTROINŽENIERS", ISSN 0061-695X. For more information please see http://epluse.fnts.bg.

As soon as the selection will be done, the authors will be informed and guided to the corresponding journal. All papers will undergo a peer reviewing process with respect to the journal.

Young Researchers Poster Competition

A special award for students and PhD candidates is intended to be organized. Please put the name of the session in the category field when electronically submitting the short paper. The candidates interested in the competition have to provide a confirmation of their student status.

Conference Venue & Accommodation

The symposium will be held in block 12 of the Technical University of Sofia. A number of hotel rooms with special discount price will be reserved for the participants. Reservation can be made by filling a reservation form available on the ISTET web page and sending it by e-mail to the address: istet2019@tu-sofia.bg. Due to the limited number of hotel rooms booked for the conference participants, the reservation should be made as soon as possible. The recommended hotels are offering special prices (standard room, and, breakfast). Please book your accommodation with the keynote: ISTET2019.

The Technical University of Sofia is the largest educational and scientific complex in Bulgaria in the field of technical and applied science with an institutional accreditation grade of 9.5 (on the scale of 10) for the period 2012 – 2018. As the first and largest polytechnic center, which supported the establishment of most of the higher technical education in the country, it sets the educational standards and national priorities for the development of engineering education and science.

XX International Symposium on Theoretical Electrical Engineering (ISTET-2019)

TECHNICAL UNIVERSITY OF SOFIA, BULGARIA, 21-24 JULY 2019