TOK 2017

Otomatik Kontrol Türk Milli Komitesi

Turkish National Committee for Automatic Control
Turkish National Conference on Automatic Control 2017

Yildiz Technical University
September 21-23, 2017, Davutpasa Campus

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IMPORTANT DATES
Deadline for Special Session Proposals:
May 15, 2017

Deadline for Draft Paper Submissions:
June 10, 2017

Notification of Acceptance:
July 14, 2017

Deadline for Final Version of Accepted Paper Submissions:
August 11, 2017

Deadline for Early Registration:
August 11, 2017

Conference Dates:
September 21 – 23, 2017

The 19 th Turkish National Conference on Automatic Control (TOK 2017) will be organized by Control & Automation Engineering Department of Yildiz Technical University, in the Convention Centre located on the Davutpasa Campus, Istanbul, Turkey on the dates 21 st to 23 rd September 2017. TOK conferences are one of the most recognized and important activities of the Turkish Automatic Control National Committee, which was established under IFAC the International Federation of Automatic Control, nearly 60 years ago. TOK conferences comprise special and normal sessions in which over 200 scientific papers are presented by the people in the area of control and automation from various universities and companies. This three-day convention also holds keynote speeches given by outstanding researchers from all over the world. Along with the main conference hall, the venue has spacious foyer and rooms to host events like panels, exhibitions and poster presentations. Thank you very much in advance for your contribution to TOK 2017. It would be a great pleasure and privilege for us to see you here in Istanbul.

Control Theory and Methods
– Linear Control Systems
– Nonlinear Control Systems
– Optimal Control
– PID Control
– Robust Control
– Discrete-Time Control Systems
– Model Predictive Control
– Sliding Mode Control
– Adaptive Control Systems
– Intelligent Control Systems
– Time-Delay Systems and Control
– Fractional-Order Systems and Control
– Infinite-Order Systems and Control
– Chaotic Systems and Control
– Multiple-Input Multiple-Output Systems and Control
– Hybrid Control Systems
– Switched Systems
– Time-Variant Systems and Control
– Observer-Based Control

Robotic Systems
– Robotic Manipulator Control
– Mobile Robots
– Serial and Parallel Robots
– Humanoid Robots
– Micro and Nano Robots
– Swarm Intelligence and Social Robots
– Medical Robots
– Haptic Systems
– Autonomous and Intelligent Robots
– Bioinspired Robots
– Physical Human-Robot Interactions
– Modeling and Control of Multi-Body Systems
– Prosthetic Robot Design and Control
– Rehabilitation Robots
– Vision-Based Control Systems

Transportation Technologies
– Railway Systems and Control
– Automotive Systems and Control
– Discrete Event Systems
– Control in Transportation Systems
– Intelligent Transportation Systems
– Safe Control Systems and Applications
– Applications in Railway Control Systems
– Multi-Vehicle Systems

Network Based Control Systems
– Network Control
– Cooperative Control
– Consensus Control
– Control over Network
– Synchronization
– Coordination

Automation
– Industrial Automation Systems
– Automation in Energy Systems
– Scada Systems
– Building Automation
– Hospital Automation
– Automation in Transportation Systems

Control System Dynamics and Analysis
– System Dynamics and Analysis
– Stability and Stabilization
– Prediction Algorithms
– Fault Detection and Monitoring in Technical Processes
– Fault Detection Based Control
– Analysis of Time Systems

Energy Systems
– Control of Energy and Power Systems
– Optimization and Control in Smart Grid
– Modeling and Prediction in Energy Systems
– Control in Renewable Energy Systems

System Modeling, Optimization and Control
– Intelligent Systems Based Methods and Algorithms
– Optimization, Modeling and Control Applications
– Machine Learning Based Control
– Evolutionary and Heuristic Optimization in Control
– Game Theory Based Control
– Dynamic Game Theory
– Neural Networks Based Modeling and Control
– Fuzzy Logic Based Modeling and Control
– Modeling and Optimization in Production Management

Control Applications
– Design and Control of Unmanned Ground, Surface and Aerial Vehicles
– Control of Surface Vehicles
– Flight Dynamics and Control
– Guided Systems
– Machine Dynamics and Control
– Biomedical Systems and Applications
– Control Applications of Embedded Systems
– Control Applications for MEMS
– Noise and Vibration Control

Process Control
– Control of Biological Processes
– Control of Environmental and Decontamination Systems
– Thermal Systems and Control
– Hydrolic and Pneumatic Control Systems
– Control of Chemical Processes
– Control of Variable Impedence Systems

Control Education
– Internet and e-Learning in Control Education
– Virtual and Remote Lab Education and Tools
– Tele-operation and Independent Learning
– Open Sources and Central Internet Source for Control Education
– University-Industry Cooperation in Control Education
– Virtual Reality in Control Education
– Curriculum, International Programs and Social Aspects

PAPER SUBMISSION
The submissions should be prepared in full text and in the format of the following paper as 4-6 pages, and submitted in PDF format via the paper sending-evaluation system on this website. Word ve LaTeX templates can be found at bottom of this page for preparation of papers. The submissions accepted by at least 2 judges from National Program Committee have to be registered by at least one of the authors for printing and representing the paper on the TOK 2017 web site. An author registration can submit up to two papers with a registration process. More registrations are required for each over limit statement.