

# CALL FOR PAPERS



## Special Session on Advanced Motion Control for Mechatronic Systems

IECON 2018 - The 44<sup>th</sup> Annual Conference of the IEEE Industrial Electronics Society  
October 21-23, 2018, Washington D.C, USA



### TOPIC OF THE SPECIAL SESSION

Varieties of mechatronic applications require advanced motion control techniques, realized by integrating smart control strategies, high precision sensing, and innovative actuators. Advanced motion control methodologies and/or techniques for fast and precise control of motion (position, velocity, and force) in various industrial mechatronic systems will bring innovative solutions and high quality of life.

The scope of this special session is to bring together prominent researchers in the field of motion control, and to create an atmosphere that attracts, triggers discussion between, and encourages future collaborations between contributors and attendants from both academia and industry in the fields of motion control.

### Topics of the Session

- High precision actuators and sensors in motion control systems
- High precision positioning techniques in industrial mechatronic systems
- Nanoscale servo systems in industrial applications
- Mass storage control systems
- Automotive motion control including electric and hybrid vehicles
- Innovative control strategies in advanced motion control
- Modeling and compensation techniques for nonlinearities in industrial mechatronic systems
- Robust and/or adaptive controller algorithms, sensor fusion, and novel mechanical design

### IEEE IES Technical Committee Sponsoring the Special Session

- IEEE IES Technical Committee on Motion Control

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### Author's schedule:

- Deadline for submission of special session papers  
May 1, 2018
- Notification of acceptance  
July 15, 2018
- Deadline for submission of final manuscripts  
August 1, 2018