



# ANNUAL CONFERENCE OF THE IEEE INDUSTRIAL ELECTRONICS SOCIETY

Chicago | Illinois, November 3-6, 2024

## Special Session on

## Stability, Stabilization and Scalability of Distributed Networked Systems With Their Applications

### Organized and co-chaired by:

Prof. Chen Peng, Shanghai University, Shanghai, China

Prof. Derui Ding, Univ. of Shanghai for Science and Tech., Shanghai, China

Prof. Yuanyuan Zou, Shanghai Jiao Tong University, Shanghai, China

[c.peng@shu.edu.cn](mailto:c.peng@shu.edu.cn)

[deruiding2010@usst.edu.cn](mailto:deruiding2010@usst.edu.cn)

[yuanyanzou@sjtu.edu.cn](mailto:yuanyanzou@sjtu.edu.cn)

## Call for Papers

### Technical Outline of the Session and Topics:

Distributed networked systems have been used in various applications including smart grids, unmanned marine vehicles, intelligent transportation systems, sensor networks, and so on. Due to its scalability, reliability, and performance advantages over centralized systems, various techniques have recently been proposed for studying stability, stabilization, and scalability of distributed networked systems in the literature. This special session aims to disseminate and highlight new research findings in the stability, stabilization, and scalability of distributed networked systems with their applications to the practices, e.g. power systems and cyber-physical systems. Prospective authors are invited to submit original contributions to the related research topics.

### Topics of the Session include, but are not limited to:

- Stability and stabilization analysis of distributed networked systems
- Event-triggered distributed control of networked systems
- Event-triggered distributed filtering of networked systems
- Cooperative control of intelligent transportation systems
- Coordination control of industrial robotics
- Distributed control and filtering with various communication scheduling
- Distributed energy management of smart grids
- Resilient and secure control in smart grids against attacks
- Resilient and secure estimation in wireless sensor networks against attacks
- Attack detection, identification and isolation



### Author's schedule:

Deadline for submission of special session papers

April 15, 2024

Notification of acceptance

June 10, 2024

Deadline for submission of final manuscript

July 01, 2024

Early submission is highly encouraged for early decision notifications!

All the instructions for paper submission are included in the conference website:

[www.iecon-2024.org](http://www.iecon-2024.org)

