

Special Session on

Distributed Control and Optimization in Networked Systems and Their Applications to Smart Grids

Organized and co-chaired by:

Prof. Lei Ding, Nanjing University of Posts and Telecomm., Nanjing, China Prof. Maojiao Ye, Nanjing University of Science and Technology, Nanjing, China Prof. Zhong-HuaPang, North China University of Technology, Beijing, China Dr. Shunyuan Xiao, Nanjing University of Posts and Telecomm., Nanjing, China

dl522@163.com ve0003ao@e.ntu.edu.sg zhonghua.pang@ia.ac.cn xsyuan@njupt.edu.cn

Call for Papers

Technical Outline of the Session and Topics:

Networked systems have attracted increasing attention due to their widespread applications to smartgrids, unmanned marine vehicles, intelligent transportation systems, sensor networks, Internet of Things, and so on. Compared with centralized paradigms, it is more desirable for networked systems to adopt distributed paradigms due to its remarkable advantages such as strong robustness, high efficiency and high reliability. However, this poses significant challenges in control and optimization of networked systems in terms of various communication constraints such as network-induced delays, packet dropouts, limited bandwidth, network attacks and so on. Therefore, this special section aims to seek a series of latest techniques andmethods for distributed control and optimization in networked systems.

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

- Distributed cooperative control •
- Distributed event-triggered control and filtering •
- Distributed secure control •
- Distributed optimization •
- Distributed Nash equilibrium seeking •
- Distributed estimation over sensor networks •
- Coordinated control and optimization for smart grids / microgrids •
- Distributed energy management of smart grids •

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

