ICIST2023 Special Session Title:
"Recent Advances in State Estimation, Cooperative Control and Distributed Optimization"

Organizers:

Wenying Xu (wyxu@seu.edu.cn)
Associate Professor, Ph.D.
School of Mathematics
Southeast University, Nanjing 210096, China

Jinlin Liang (jinlliang@seu.edu.cn)
Professor, Ph.D.
School of Mathematics
Southeast University, Nanjing 210096, China

Shaofu Yang (sfyang@seu.edu.cn)
Associate Professor, Ph.D.
School of Computer Science and Engineering
Southeast University, Nanjing 210096, China

Haibo Bao (hbbao@swu.edu.cn)
Professor, Ph.D.
School of Mathematics and Statistics
Southwest University, Chongqing 400715, China

Wenwu Yu (wwyu@seu.edu.cn)
Professor, Ph.D.
School of Mathematics
Southeast University, Nanjing 210096, China

About the Topic and Purpose of the Special Session:

The investigation of state estimation, cooperative control and distributed optimization has attracted ever-increasing research attention in both industry and academia due primarily to their explicit engineering insights in many applications ranging from machine learning, mobile sensor networks, global positioning systems to aerospace systems. Nevertheless, there are many key issues that have not received adequate research attention yet. This motivates us to organize a special session at ICIST2023 to gather researchers in the above fields for exchanging and sharing research ideas and advices.

This session aims at collecting and reporting the latest progress in state estimation, cooperative control and distributed optimization of networked control systems (NCSs) as well as their potential practical applications. The invited session aims to establish a forum for international researchers from different fields of systems and control theory, electrical engineering, computer sciences, and applied mathematics, to present and evaluate the most recent developments and new ideas on state estimation, control and optimization of NCSs, regarding both fundamental theory and practical applications.