Distributed Optimization and Game with Applications to Robots

CALL FOR PAPERS

Recent years have witnessed a rapid development of artificial intelligence (AI), embodied intelligence, and large language models (LLMs), intelligent decision-making and control, including learning/data-based control, optimization, game theory, have become hot topics in both theoretical research and industrial applications across the world, such as robot manipulators, unmanned ground vehicles, unmanned aerial vehicles and AI algorithms, which, in turn, have thus far motivated the rapid development of a wide spectrum of centralized/decentralized intelligent optimization/game and control. They also have far-reaching impact on social prosperity and national development. The goal of this special session is to bring together the researchers and practitioners to discuss recent advancements on the related fields.

The topics of interest include, but are not limited to:

❉ Distributed control

❉ Learning-based control ❉

Distributed optimization ❉

Online optimization

❉ Game theory and decision making ❉

Reinforcement learning

- ❉ Distributed estimation
- ❉ Network security
- ❉ Algorithms
- ❉ Robotics and UAVs

For more information on the special session, please contact Professor Xiuxian Li through email: **xli@tongji.edu.cn**.