Special Issue on
Coordinated Control and Estimation of Multiagent Systems with Engineering Applications

Call for Papers

Coordinated control of multiagent systems is a phenomenon in which a large number of agents, using only limited environmental information and simple rules, are organized into a coordinated motion. Coordinated behavior exists in nature in the form of flocking of birds, schooling of fish, swarming of bacteria, and so on. Coordinated control and estimation problems have attracted much attention among researchers in biology, physics, control engineering, and computer science for decades, partially due to the broad applications of coordinated control and estimation in many engineering areas including cooperative control of mobile robots and estimation of mobile sensor networks.

The objective of this special issue is to provide an opportunity for scientists, engineers, and practitioners to present their latest theoretical and technological achievements in coordinated control and estimation of multiagent systems. All the submissions are expected to have original ideas and new approaches. Papers presenting newly emerging fields are especially welcome. Potential topics include, but are not limited to:

- Multiagent systems (MAS)
- Networked systems
- Distributed and decentralized controls
- Distributed nonlinear observer design
- Distributed constraint satisfaction
- Coordination and cooperation
- Real world applications of MAS
- MAS in mobile ad hoc networks and sensor networks

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