

Special Issue

Networked Control of Multi-Robot Systems

Message from the Guest Editors

With the recent technological development of broadband cellular networks, networked control of multi-robot systems has been enabled with higher accuracy, speed, and resilience in the control and estimation of large-scale robotic systems, such as multiple unmanned aerial vehicles, unmanned ground vehicles, and autonomous underwater vehicles, etc. This Special Issue focuses on key theoretical and practical contributions to the control and estimation problems for networked multi-robot systems:

- Cooperative control of multi-robot systems;
- Networked control under communication constraints;
- Multi-robot formation control using local relative measurements, such as relative positions, bearings, and distances;
- Navigation and localization of multi-robot systems using local relative measurements, such as relative positions, bearings, and distances;
- Data-driven control of multi-agent systems;
- Cooperative path planning and following of multiple mobile robots, such as aerial, ground, and underwater robots;
- Resilient estimation and control of multi-robot systems;
- Swarm robotic behaviors and their applications;
- Distributed optimization of multi-robot systems.

Guest Editors

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Deadline for manuscript submissions

closed (31 December 2022)



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Message from the Editor-in-Chief

Electronics is a multidisciplinary journal designed to appeal to a diverse audience of research scientists, practitioners, and developers in academia and industry. The journal is devoted to fast publication of latest technological breakthroughs, cutting-edge developments, and timely reviews of current and emerging technologies related to the broad field of electronics. Experimental and theoretical results are published as regular peer-reviewed articles or as articles within Special Issues guestedited by leading experts in selected topics of interest.

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