

Special Issue

Coordination and Communication of Multi-Robot Systems

Message from the Guest Editor

As robotics continues to advance, multi-robot systems are playing an increasingly pivotal role in various fields, including manufacturing, agriculture, healthcare, and disaster response. The effectiveness of such systems relies heavily on robust coordination and communication strategies. We invite you to contribute to this Special Issue, which will explore state-of-the-art approaches and technologies that enhance the autonomy, efficiency, and reliability of multi-robot systems. Research areas may include (but not limited to) the following:

- Distributed coordination and control mechanisms;
- Communication protocols for multi-robot systems;
- Swarm robotics and emergent behaviors;
- Multi-agent reinforcement learning applications;
- Human-robot interaction in multi-robot contexts;
- Fault-tolerant and resilient system designs;
- Task allocation and optimization strategies;
- Scalable and adaptive robotic systems;
- Real-world multi-robot system deployments and case studies;
- Integrated sensing and communication (ISAC) in robots.

Guest Editor

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About the Journal

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 guest-edited by leading experts in selected topics of interest.

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