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Intelligent Sensing, Control and Actuation in Networked Systems

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Message from the Guest Editors

Dear Colleagues,

This Special Issue aims to showcase the latest advancements in sensing, control, and actuation technologies that are transforming the way we approach networked system challenges. By integrating cutting-edge techniques from fields such as machine learning, adaptive control, event-triggered control, and multi-agent coordination, researchers are developing innovative solutions to enhance the operational capabilities of networked systems. The scope of this Special Issue includes, but is not limited to, the following topics:

1. Distributed actuator layout optimization;
2. Advanced sensing and learning-based control algorithm;
3. Machine learning-based techniques, such as neural networks and data-driven models, for anomaly detection and fault diagnosis;
4. Actuator fault-tolerant control;
5. Planning and control strategies for networked systems involving actuators;
6. Actuator applications in networked systems.