

## Special Issue

# New Trends in Distributed Estimation and Control of Network Autonomous Systems

### Message from the Guest Editors

The rapid advancement of information technology has transformed autonomous systems into sophisticated, intelligent, networked architectures known as Networked Autonomous Systems (NASs). These systems facilitate seamless coordination across perception, control, and decision-making processes, crucial in industrial automation, smart manufacturing, intelligent transportation, and energy grids. In terms of perception, integrating heterogeneous and asynchronous sensor data can lead to inconsistencies, delays, and fusion bottlenecks, affecting the accuracy of state estimations. Furthermore, NASs must function in dynamic and uncertain environments, confronting internal faults, external disturbances, and cyber threats. Ensuring safety and reliability through cooperative control is paramount. Given these challenges, this Special Issue invites innovative research on distributed estimation, control, and optimization methodologies for NASs, bridging advancements in control theory, robotics, networks, and artificial intelligence. We welcome submissions of theoretical, algorithmic, and applied contributions that will help to shape next-generation autonomous systems.

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### Guest Editors

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## Electronics

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