

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.

Guest Editors

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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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