

Special Issue

Autonomous Operation and Intelligent Control of Robotic Systems

Message from the Guest Editor

Robotic systems are rapidly transitioning from human-supervised or teleoperated tools to autonomous agents capable of operating, coordinating, and adapting in complex, uncertain, cluttered, and unstructured environments. This Special Issue, "Autonomous Operation and Intelligent Control of Robotic Systems", aims to bring together cutting-edge research that advances the theoretical foundations, computational algorithms, and practical applications of autonomous robotic systems. We seek contributions that go beyond conventional control or planning techniques by integrating cross-disciplinary methods, addressing real-world challenges, or demonstrating autonomy at meaningful scales (e.g., multi-robot teams, long-horizon missions, safety-critical operation, or hybrid human-robot workflows). By gathering diverse perspectives from control, robotics, AI, cognitive science, and domain applications, this Special Issue aims to catalyze transformative advances. Ultimately, our goal is to shape the next generation of autonomous robotic systems capable of trustworthy, adaptive, and intelligent operation across both everyday and extreme environments.

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 guestedited by leading experts in selected topics of interest.

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