Special Issue

Intelligent Control for Next-Generation Robotics

Message from the Guest Editors

This Special Issue is dedicated to advancing the field of Intelligent Control as the core enabler for next-generation robotics. The focus is on cutting-edge control paradigms that go beyond traditional methods, emphasizing autonomy, adaptability, and cognitive interaction in complex, real-world environments. We will explore the integration of machine learning, artificial intelligence, and advanced computational intelligence with robotic systems to create more resilient, responsive, and capable machines. The scope of the issue encompasses both theoretical developments and practical applications. Key topics include, but are not limited to: deep reinforcement learning for robotic control, adaptive and nonlinear control strategies, AI-driven perception-action cycles, human–robot collaboration through intuitive interfaces, and intelligent control for soft, swarm, and bio-inspired robots. Contributions addressing robustness, safety, and ethical considerations in these intelligent systems are also highly encouraged.

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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