Special Issue

Advancements in Robotics: Perception, Manipulation, and Interaction

Message from the Guest Editors

This Special Issue aims to explore the cutting-edge developments in robotic systems that enhance sensory perception, refine manipulation skills, and enrich interactive experiences. We are calling for contributions that shed light on the theoretical underpinnings, practical applications, and transformative impacts of these advancements. The areas of interest for this Special Issue include, but are not limited to, the following:

- Sensor technologies and perception algorithms for robotics;
- Robotic manipulation in unstructured or dynamic environments;
- Human–robot interaction and collaboration;
- Machine learning and AI applications in robotic systems;
- Autonomous decision making and control in robotics;
- Robotic assistance in healthcare, manufacturing, and service sectors;
- Ethical considerations and social impacts of robotic interactions;
- Integration of robotics with IoT and smart infrastructure;
- Advances in robotic mobility and dexterity;
- Haptic feedback and teleoperation in robotic systems;
- Robotics in extreme or hazardous environments;
- Personalized and adaptive robotic assistance.

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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 guest-edited by leading experts in selected topics of interest.

Editor-in-Chief

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