

Special Issue

Enhanced Perception in Robotics Control and Manipulation

Message from the Guest Editors

The Special Issue in “Enhanced Perception in Robotics Control and Manipulation” encourages novel and original papers presenting high-quality research specifically focusing on perception technologies for robotic systems. A special emphasis will be on novel representations and approaches for robotics manipulation and grasping with focus on “adversarial” objects, e.g., characterized by transparent, reflective, and feature-less surfaces. Despite learning-based solutions currently playing a key and disruptive role in perception technologies, less data-hungry approaches are encouraged and will also be considered within the scope of this SI. Indeed, topics are invited from a wide range of disciplines and perspectives, including but are not restricted to the following:

- Advances in object detection;
- Advances in semantic segmentation;
- Object representation;
- Deep learning solutions to machine vision;
- Scene understanding;
- Learning embeddings;
- Machine vision to robot grasping and manipulation

Guest Editors

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Deadline for manuscript submissions

closed (31 March 2024)



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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.

Editor-in-Chief

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manuscripts are peer-reviewed and a first decision is provided to authors approximately 16.4 days after submission; acceptance to publication is undertaken in 2.6 days (median values for papers published in this journal in the second half of 2025).