

Special Issue

Autonomous Operation of Robots in Complex Environment

Message from the Guest Editors

Robots have started to become an integral part of our society. The autonomy stack that governs the decision-making of robots has gone through several drastic changes in the last 20 years, stemming from the active investigation this topic. Almost all world governments have started to draft laws to safely incorporate robotic agents into our future living style. With human lives at stake, it is important to guarantee safety while deploying these autonomous robots to solve real-world problems. Motion planning for robots involves the planning of a route from a given source to a destination, and when robots are operating in uncertain, cluttered environments, the path planning should be performed by considering these factors. In this Special Issue, original research articles and reviews are welcome. Research areas may include, but are not limited to, the following areas

- Language models for robotics
- Multi-robot planning & control
- Cooperative control & swarms
- Advances in navigation, perception & SLAM
- Safe decision-making under uncertainty
- Risk-aware autonomy
- Formal verification in robotics
- Aerial & field robotics

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Deadline for manuscript submissions

15 February 2026



Electronics

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Impact Factor 2.6
CiteScore 6.1



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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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