

Special Issue

Intelligent Mobile Robotic Systems: Decision, Planning and Control

Message from the Guest Editors

Due to the urgent requirements of environmental exploration, transportation, service industry, and military application, it is crucial to develop intelligent mobile robots to replace humans in completing dangerous tasks and improve efficiency. To attain the objective mentioned above, mobile robots must have the abilities of intelligent decision-making, safe motion planning, and accurate motion control. This session will exhibit and discuss the latest research in advanced decision-making, planning, and control technologies for mobile robots, in order to improve the reliability, adaptability, and manoeuvrability of such robots. This session aims to encourage researchers to share new ideas and new methods for enhancing and exploring the potential of mobile robots.

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- Advanced decision and embodied AI technologies;
- Fast trajectory planning and collision avoidance for mobile robots;
- Robust state estimation and filtering for mobile robots;
- Motion control in an unstructured environment;
- Learning-based motion control technologies;
- Human–robot interaction;
- Other related issues.

Guest Editors

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Dr. Bonan Huang

Dr. Yang Deng

Dr. Minglei Zhu

Deadline for manuscript submissions

closed (15 July 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 guest-edited by leading experts in selected topics of interest.

Editor-in-Chief

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