Intelligent Mobile Robotic Systems: Decision, Planning and Control

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Deadline for manuscript submissions:
closed (15 July 2024)

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.

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Special Issue

Editor-in-Chief

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Message from the Editor-in-Chief

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