



Advanced Research in Intelligent Autonomous Mobile Robots System, Learning and Control

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Deadline for manuscript submissions:

10 February 2025



Message from the Guest Editors

In recent years, progress in the fields of robotics and AI have accelerated the introduction of mobile robots into our lives. The application of autonomous mobile robots is rapidly expanding to different fields. In recent years, machine learning and computer vision methods have opened novel paradigms of artificial intelligence. However, most of these heterogeneous autonomous systems are increasingly employed in unstructured, cluttered, dynamic, and human-centric environments that are still challenging to handle.

In this Special Issue, we are aiming to collect high-quality articles concerning some recent advances in the field of autonomous mobile robot systems, with research areas including (but not limited to) the following:

- Mobile robotics, AI, and their applications in robotics;
- Mapping and localization or SLAM techniques;
- Path planning;
- Service robotics (including robots in healthcare and/or assistive devices);
- Haptics-, AR-, and VR-based systems;
- Advanced manipulation;
- Intelligent control;
- System integration and software architecture for autonomous systems;
- Multirobot systems, including heterogeneous robot systems.



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Message from the Editor-in-Chief

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