

## Special Issue

# Mobile Robotics and Autonomous Intelligent Systems

### Message from the Guest Editors

Advanced mobile robotics and autonomous intelligent systems are now key technologies in aerospace, scientific exploration, security, disaster relief, etc. This Special Issue will present the latest trends in automation technology, robotics, and artificial intelligence and discuss the present advances and challenges in mobile robotic systems and intelligent systems. We are seeking innovative research on perception, decision making, task planning, and control. Review and original research articles are welcome. Topics of interest include, but are not limited to:

Motion control and motion planning for intelligent vehicles;

- Task planning, path planning, and trajectory generation for mobile robotics;
- Robotic task decomposition, allocations and scheduling;
- Active disturbance rejection control for robotics;
- Dexterous manipulation for robotic systems;
- Model-based predictive control for intelligent systems;
- Robust control, sliding mode control, and adaptive control for robotic systems;
- Deep learning and reinforcement learning for mobile robotics;
- Advanced decision and control methods for unmanned systems;
- Architecture for robotic and intelligent systems.

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### Guest Editors

Prof. Dr. Weiran Yao

Prof. Dr. Ligang Wu

Prof. Dr. Xiaojie Su

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### Deadline for manuscript submissions

closed (20 February 2025)



## Applied Sciences

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## About the Journal

### Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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### Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo  
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