Special Issue

Intelligent Perception and Control for Autonomous Mobile Systems

Message from the Guest Editors

The Special Issue focuses on advanced topics in mobile robotics and autonomous mobile systems equipped with perceiving capabilities. This objective is to utilize state-of-the-art technologies to conceive and design autonomous mobile systems capable of perceiving complex environments, situational context, and human intent to guarantee strong adaptive behaviors. The features of autonomous mobile systems are fundamentally rooted in a new class of advanced materials. This includes smart sensors and adaptive actuators, coupled with distributed control networks and advanced nonlinear control algorithms, to achieve multi-modal sensing, adaptive control, accurate localization, and precise environmental understanding. The Special Issue will include both theoretical and experimental aspects regarding autonomous mobile systems. The area is of great interest for a broad research community, including both technological innovation and new educational methodologies.

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Deadline for manuscript submissions

30 June 2026

Robotics

an Open Access Journal by MDPI

Impact Factor 3.3
CiteScore 7.7

mdpi.com/si/266834

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About the Journal

Message from the Editor-in-Chief

It is my great pleasure to welcome you to our open access journal, *Robotics*, which is dedicated to both the foundations of artificial intelligence, bio-mechanics and mechatronics, and the real-world applications of robotic perception, cognition and actions. The 21st century is the robotics century and intelligent robots will change our lifestyle forever. Let us work together toward the realization of intelligent robots step by step.
It is great fun to create intelligent robots and imagine their practical applications. *Robotics* is now ready to serve you in the long journey towards such a goal.

Editor-in-Chief

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