Special Issue

The Future of Mobility: Exploring Wheeled–Legged Robot Systems

Message from the Guest Editors

This Special Issue aims to gather original research, reviews, and case studies that address the latest advances in the dynamic locomotion of wheeled–legged robots. We welcome contributions on model-based and learning-based control strategies, trajectory optimization, terrain interaction modeling, perception-driven planning, and integrated system design. Work demonstrating real-world deployments or benchmarking in unstructured environments is especially encouraged.

- wheeled–legged robots
- dynamic locomotion
- hybrid mobility systems
- motion planning and control
- whole-body control
- terrain adaptation
- perception-based locomotion
- trajectory optimization
- learning-based control
- real-world deployment

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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

Prof. Dr. Marco Ceccarelli
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