



Legged Robots into the Real World

Guest Editor:

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Deadline for manuscript
submissions:

closed (30 April 2023)

Message from the Guest Editor

Dear Colleagues,

This Special Issue focuses on the advancements in real world deployment of legged robots, from the novel mechanism, sensor and actuator design, to dynamic and robust motion generation using optimal control and machine learning approaches, aiming at unlocking the full potential of legged robots in practical scenarios. Topics of interest include, but are not limited to:

- The design and development of legged robots;
- Advances in legged manipulators;
- Dynamic legged locomotion;
- Whole-body motion generation;
- Reinforcement learning for legged robots;
- Teleoperation of legged robots;
- Jumping and running robots;
- Sensing, perception and state estimation for legged robots;
- Localization, mapping and navigation for legged robots;
- Collaborative legged robots;
- Real-world applications using legged robots.

Dr. Chengxu Zhou

Guest Editor





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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.

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