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Legged Robots into the Real World, 2nd Edition

Guest Editor:

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Message from the Guest Editor

Dear Colleagues,

Legged robots have the potential to augment human capabilities across diverse operational environments. Humanoid robots, alongside quadrupeds, are revealing significant potential across various sectors. Nonetheless, while there have been notable advancements in recent years, the broad deployment of legged robots in real-world applications remains in its nascent stages, with numerous challenges yet to be surmounted.

This Special Issue seeks contributions that highlight cutting-edge advancements in the deployment of legged robots. We are particularly interested in novel mechanisms, innovative actuator designs, optimal control strategies, and leveraging machine learning to harness the full potential of legged robots in practical settings.

Topics of interest encompass, but are not limited to, the following:

- Novel design and development of legged robots;
- Advancements in legged manipulation;
- Dynamic legged locomotion;
- Whole-body motion generation and optimization;
- Jumping and running robots;
- Innovations in localization, mapping, and navigation for legged systems;
- Case studies and real-world applications utilizing legged robots
 Specialsue



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Editor-in-Chief

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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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