



## Recent Trends and Advances on Robotics and Mechatronics within the IFToMM Technical Committee on Robotics and Mechatronics

Guest Editors:

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### Message from the Guest Editors

Dear Colleagues,

This Special Issue cordially invites submissions from members of the IFToMM Technical Committee on Robotics and Mechatronics, focusing on the latest developments and emerging trends in the field. Particularly welcome are contributions from the inspirational presentations delivered at the IFToMM World Congress in 2023 (<http://wc2023.jc-iftomm.org/>). We invite contributions across a spectrum of topics, including, but not limited to:

Deadline for manuscript  
submissions:

**30 September 2024**

- Automation and Control Systems;
- Sensing and Perception in Robotics; Advanced Actuators and Sensors;
- Artificial Intelligence and Machine Learning in Mechatronics; Control Algorithms for Robotics;
- Robot Vision and Image Processing;
- Robot Manipulation and Grasping; Human-machine Interaction;
- Mechatronic Systems; Energy Efficiency in Mechatronics;
- Cyber-Physical Systems in Robotics;
- Biomechatronics and Exoskeletons; Robotics in Healthcare and Medical Applications;
- Mechatronic System Integration; Robotics and Mechatronics in Space Exploration;
- Environmental and Sustainability Considerations in Robotics and Mechatronics.





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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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