

## Special Issue

# AI for Robotic Exoskeletons and Prostheses

### Message from the Guest Editor

Artificial Intelligence (AI) is already a pervasive technology in ICT systems that is changing people's lives, encompassing digital voice assistance, smart homes, facial recognition, and chatbots. Simultaneously, robotic exoskeletons and prostheses have revolutionized the healthcare sector, assisting people with daily activities, especially in the last decade. This Special Issue aims to investigate the empowerment that AI can bring to robotic exoskeletons and prostheses by presenting innovative AI-based approaches for robot modeling, control, interaction, and application in real-world scenarios. We seek original contributions reporting on the development of AI-based solutions that improve the quality of life of people who use these types of robots from one or more perspectives. Contributions demonstrating superior and more innovative technological performance are also relevant to this Special Issue.

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### Guest Editor

Dr. Claudio Loconsole  
Department of Engineering and Science, Universitas Mercatorum,  
Rome, Italy

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### Deadline for manuscript submissions

closed (31 August 2025)



## Robotics

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CiteScore 7.7



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*Robotics*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[robotics@mdpi.com](mailto:robotics@mdpi.com)

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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.

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### Editor-in-Chief

Prof. Dr. Marco Ceccarelli

LARM2: Laboratory of Robot Mechatronics, Department of Industrial Engineering, University of Rome Tor Vergata, Via del Politecnico 1, 00133 Roma, Italy

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