Special Issue

Advancements in Sensing Technologies and Control Mechanisms for Assistive Robotics: Enhancing Human–Robot Interaction and Assistance

Message from the Guest Editor

Assistive robotics has gained significant traction in recent years, offering invaluable support to humans across a wide spectrum of activities, from everyday tasks to intricate procedures. However, the current state of technology and tools utilized in these systems presents certain limitations, resulting in restricted functionality and limited human–robot interaction. To unlock the full potential of assistive robotics, there is a pressing need for innovative advancements in sensing technologies and control mechanisms. These breakthroughs will enable seamless communication and interaction between humans and robots, fostering a more efficient, effective, and safe approach to task execution. This Special Issue aims to explore the latest developments in sensing technologies and control mechanisms for assistive robotics, foster interdisciplinary research, and showcase cutting-edge solutions that empower humans and revolutionize the field of assistive robotics.

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Deadline for manuscript submissions

closed (30 November 2024)

Sensors

an Open Access Journal by MDPI

Impact Factor 3.5
CiteScore 8.2
Indexed in PubMed

mdpi.com/si/174301

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