Special Issue

Emerging Technologies for Assistive Robotics

Message from the Guest Editors

As the global population ages and the demand for personalized healthcare grows, assistive robots are playing an increasingly vital role in improving the quality of life for individuals with disabilities, the elderly, and those in need of rehabilitation.

Assistive robots offer support that enables people to extend their active lives at home, enhancing their independence and wellbeing. These technologies range from wearable exoskeletons that aid mobility to intelligent prosthetics and socially interactive robots that provide companionship and cognitive support. Advances in machine learning, sensor technologies, and human–robot interactions are enabling these systems to better understand and adapt to the dynamic needs of users.

This Special Issue highlights the latest research in novel robotic platforms, adaptive control algorithms, and the integration of smart sensors and artificial intelligence to enhance the autonomy and usability of assistive robots. It aims to inspire future research that will continue to push the boundaries of assistive robotics, creating impactful solutions that can significantly improve the lives of those who need them most.

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As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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