Special Issue

Robotic-Based Technologies for Rehabilitation and Assistance

Message from the Guest Editor

Robotic technology designed to assist rehabilitation can potentially increase the efficiency of and accessibility to therapy by assisting therapists in providing consistent training for extended periods of time and collecting data to assess progress. Recently, wearable-type robots have been used directly on patients to overcome the physical limitations of the body, resulting in the temporary or permanent augmentation of a person's abilities and features. This Special Issue is designed to provide an opportunity to introduce and share state-of-the-art research in the field of robotic-based technology for rehabilitation and assistance. The scope covers the derivation of a new concept of robots, mechanical design, and controller development for rehabilitation and assistance robots, and the evaluation of robot assistance in biomechanical and physiological aspects.

Keywords: rehabilitation robotics; assistive robotics; medical robotics; healthcare robotics; wearable robotics; biomechanical and physiological evaluation; translating research

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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.

Editor-in-Chief

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