Special Issue

Sensors and Sensing Technologies for Rehabilitation in Robot-Assisted Healthcare

Message from the Guest Editors

The accelerated advancement of sensory technologies has driven a significant transformation in the field of rehabilitation, particularly in robot-assisted environments. The integration of motion sensors, multisensory systems, wearable sensors, and immersive technologies such as virtual reality (VR) and augmented reality (AR) has enabled the development of more precise, personalized, and motivating therapeutic interventions. Applications based on head-mounted displays (HMDs), telerehabilitation platforms, and serious games allow both more interactive rehabilitation, but also the remote monitoring of therapeutic progress. In addition, the incorporation of artificial intelligence and machine learning opens up new possibilities for advanced data analysis, motor performance prediction, and dynamic adaptation of therapies. This Special Issue aims to bring together cutting-edge research related to the design, implementation, and validation of sensing technologies applied to robotic rehabilitation. Academics, clinicians, and industrial researchers are invited to submit original studies and systematic reviews in this emerging, multidisciplinary area.

Guest Editors

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Message from the Editor-in-Chief

Sensors is a leading journal devoted to fast publication of the latest achievements of technological developments and scientific research in the huge area of physical, chemical and biochemical sensors, including remote sensing and sensor networks. Both experimental and theoretical papers are published, including all aspects of sensor design, technology, proof of concept and application. Sensors organizes Special Issues devoted to specific sensing areas and applications each year.

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