Special Issue

Application of Robotic Devices for Neurologic Rehabilitation

Message from the Guest Editor

The application of robotic devices to rehabilitation of sensorimotor deficits after central nervous system lesions has greatly developed. Clinically usable, and effective devices is constantly improving, but the implementation of robotic rehabilitation into clinical practice is still limited.

Robotic rehabilitation has the potential to provide many advantages in terms of standardization of tasks, real-time measurements and feedback, relief of a physiotherapist's physical burden, and, most importantly, intensity of training. Another potentially relevant advantage is the possibility to detect real-time measures of the patient's performance. Finally, robotic rehabilitation is often integrated with serious games and virtual reality.

This Special Issue aims to cover the abovementioned items, focusing on advances in the development of robotic devices, on neurophysiological mechanisms implied in robotic rehabilitation, including cognitive processes, and on translational research models of implementation, sustainability, and effects of robotic rehabilitation, applied to stroke and to other neurologic conditions.

Guest Editor

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Addressing the environmental and public health challenges requires engagement and collaboration among clinicians and public health researchers. Scientific discoveries and advances in this research field play a critical role in providing a rational basis for informed decision-making toward control and prevention of human diseases, especially the illnesses that are induced from environmental exposure to health hazards.

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Editor-in-Chief

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