Special Issue

Human-Centered Robotics Applications in Rehabilitation of Individuals with Neurological Conditions

Message from the Guest Editor

Robotics has proven to be able to provide valid support for both assessment and rehabilitation in neurological disabilities. It is necessary to generate homogeneous cultural growth on the part of clinicians and bioengineers, with the aim of developing personalized clinical protocols and reducing the time of clinical translationality. It is necessary, in the future, to integrate the cognitive and sensory aspects in the robotic treatment of sensorimotor deficits in patients with neurological diseases. Many aspects remain to be improved, such as a correct cost-effective evaluation and ethical and social aspects for the correct integration of robots in rehabilitation care processes. Finally, most of the evidence is related to stroke and gait in spinal cord injuries, while they are lacking in other pathological populations. The present Special Issue aims to address the unmet need for a real and efficient robotic implementation for patient sensorimotor rehabilitation, looking at the present status and future requirements.

Guest Editor

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