Special Issue

Rehabilitation Robots: Design, Development, and Control

Message from the Guest Editors

Age-related problems, including cardiovascular diseases such as stroke, are among the most common causes of disability worldwide. Stroke causes musculoskeletal disorders, including motor deficits in the upper and lower limbs. Rehabilitation therapies are considered the most effective treatment for promoting functional recovery. Rehabilitation robots constitute a novel technology that provides physiotherapy and motion aid to accelerate neuronal plasticity, measure patients' healing processes, and quantify sensory–motor action. Research on rehab robotics has considerably advanced throughout the last decade. Due to the complexity of the mechanical design (anthropomorphic design), the variety of assistance strategies (for different types of patients with varying degrees of impairments), and the sensitivity of their interaction with various human conditions, these robots remain an active area of study. For detailed information, please visit here.

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Deadline for manuscript submissions

closed (31 January 2024)

Sensors

an Open Access Journal by MDPI

Impact Factor 3.5
CiteScore 8.2
Indexed in PubMed

mdpi.com/si/134332

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