Special Issue

Robotic Motor Rehabilitation for Brain Injured Patients: State of the Art on Its Efficacy and Neural Underpinnings

Message from the Guest Editors

Motor deficits – most notably, paresis – is a frequent result of brain injury. Robot-assisted therapy has been gaining acceptance as a treatment to improve limb functionality in stroke survivors. While there is evidence that robot-assisted therapy can improve arm function and muscle strength after a stroke, less evidence has been collected regarding lower limb rehabilitation. Moreover, the neural mechanisms underlying clinical and functional improvements are not always investigated. This Special Issue is therefore dedicated to experimental studies that use robot-assisted interventions to treat upper or lower limb paresis after brain damage. Given the lack of data on walking rehabilitation, papers presenting results on the efficacy of exoskeletons or lower limb devices will be prioritized. Studies comprising both clinical and neuroimaging or neurophysiological evaluations are particularly welcome, but works using lesion symptom mapping will also be considered of interest when shedding light on the impact of cerebral lesion load on the response to robotic-assisted rehabilitation.

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You are invited to contribute a research article or a comprehensive review for consideration and publication in *Brain Sciences* (ISSN 2076-3425). *Brain Sciences* is an open access, peer-reviewed scientific journal that publishes original articles, critical reviews, research notes, and short communications on neuroscience. The scientific community and the general public can access the content free of charge as soon as it is published.

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