



## Robot-, Virtual Reality- and Sensor-Based Therapies Boosting Neuroplasticity in the Context of Motor and Cognitive Neurorehabilitation: Current State of the Art and Applications

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### Message from the Guest Editors

Several Cochrane revisions have been created and updated regarding robot and electromechanic-assisted therapy and virtual reality use specifically in subjects affected by stroke. They have become more usable and widespread every year. However, despite their diffusion in neurorehabilitation and despite the fact that we are now ready to prepare a dialogue based on dialectics and knowledge superior to that of twenty years ago, many questions remain unanswered.

In particular, the disputes about their efficacy, the high purchase cost for most of devices, the absence of clear and univocal guidelines about better dosages to use and parameter values to select, and somewhat diffuse scepticism of some members of the rehabilitation teams, may limit their use in clinical settings.

Finally, the majority of the available studies and clinical indications regard stroke and multiple sclerosis, despite the fact that they might even benefit other pathologies.

This Special Issue aims to provide an overview on the use of new technologies in the neurorehabilitation of people with motor and cognitive disabilities stemming from central nervous systems diseases.





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