Special Issue

Advances of Neurorehabilitation and the Neural Basis

Message from the Guest Editor

Nowadays, neuromodulation technologies, such as neuromuscular electrical stimulation (NMES), repetitive peripheral magnetic stimulation (rPMS), repetitive transcranial magnetic stimulation (rTMS), and transcranial direct current stimulation (t-DCS), play an important part in the neurorehabilitation management of patients. A new type of rPMS has recently appeared, which is easier to handle than the conventional one with a round coil or figure of 8. Given that recovery of motor paresis after stroke and tetraplegia due to spinal cord injury has been closely associated with cortical reorganization in the brain, it is plausible that neuromodulation might enhance the plastic change.In this Special Issue, we would like to share concerns for heterogeneous stimulus conditions among studies and discuss possible neural mechanism underlying the benefit of neuromodulation. Our ultimate goal is to conquer disabilities, which is realized by maximizing the benefit of neuromodulation techniques, and it is why we should investigate further the possible neural mechanisms as well as the pros and cons of the techniques.

Guest Editor

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As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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