Special Issue

Modulatory Effects of Deep Brain Stimulation on Distributed Brain Networks

Message from the Guest Editor

The field of deep brain stimulation (DBS) is currently experiencing a paradigm-shift from studying impact on local brain tissue toward the analysis of modulatory effects on distributed brain networks. With the rise of modern noninvasive neuroimaging methods, this local-to-global shift bears promising potential to better understand brain disorders, brain function and to translate novel concepts into clinical practice. Already, network-based targets that may guide surgical planning and DBS programming are being introduced and prospectively validated with the potential to revolutionise the field. In this Special Issue, we will discuss the indications, potentials, efficacy and validation of network-based brain stimulation concepts with a special focus on DBS. These include the combination of DBS imaging with resting-state functional magnetic resonance imaging, diffusion-weighted imaging based tractography and electrophysiological measures such as electroencephalography, magnetoencephalography and local field potential recordings.

Guest Editor

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