Special Issue

Cognitive Neuroscience and Symmetry

Message from the Guest Editors

One of the most challenging topics in modern neuroscience is understanding how the two brain hemispheres, and their related cortical networks, are organized to elaborate and react to different kinds of cognitive stimuli, in order to attempt to improve the cognitive performance in both the healthy and in patients during rehabilitation treatments. The correlations between the brain networks' symmetry and performance (during a task or a treatment) could represent an interesting tool for exploring the characterization of brain states for the upcoming performance. The purpose of this Special Issue is to investigate the symmetry and asymmetry of brain rhythms' characteristics, including their functional coupling, in electroencephlographic (EEG), magnetoencepholographic (MEG), and functional magnetic resonance (fMRI) recordings in a resting state or under task conditions.

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Deadline for manuscript submissions

closed (15 August 2022)

Symmetry

an Open Access Journal by MDPI

Impact Factor 2.2
CiteScore 5.3

mdpi.com/si/60919

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Message from the Editor-in-Chief

Symmetry is ultimately the most important concept in natural sciences. It is not surprising then that very basic and fundamental research achievements are related to symmetry. For instance, the Nobel Prize in Physics 1979 (Glashow, Salam, Weinberg) was received for a unified symmetry description of electromagnetic and weak interactions, while the Nobel Prize in Physics 2008 (Nambu, Kobayashi, Maskawa) was received for the discovery of the mechanism of spontaneous breaking of symmetry, including CP symmetry. Our journal is named *Symmetry* and it manifests its fundamental role in nature.

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