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The Use of the Brain-Computer Interface (BCI) in Applied Neuroscience: From the Single- to Multi-Brain Approach

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Deadline for manuscript submissions:
closed (20 October 2023)

Message from the Guest Editors

The BCI translates human brain activity into codes that can be used by a computer for many purposes. Traditionally, the BCI has been used to detect brain signals so as to translate intentions into commands for a machine. However, technological advancements have allowed the exploration of other BCI applications, thanks to improved wearability, flexibility and reliability, with high ecological validity. In particular, applied social neuroscience is a fascinating horizon that BCI-based studies have started to explore, moving from individual towards multi-brain applications. Thus, instead of studying one person at a time, more people may be connected to investigate what happens when brains work together. From this perspective, a paradigm called hyperfeedback has been developed as a way to extend BCI neurofeedback studies to multi-perspective neuroscience.

The aim of this Special Issue is to collect basic and applied BCI studies in heterogenous settings, which address single- and multi-brain applications. We aim to collect papers that can together demonstrate the innovative trends in BCI studies.

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Message from the Editor-in-Chief

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