

Special Issue

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

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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You are invited to contribute a research article or a comprehensive review for consideration and publication in *Brain Sciences* (ISSN 2076-3425). *Brain Sciences* is an open access, peer-reviewed scientific journal that publishes original articles, critical reviews, research notes, and short communications on neuroscience. The scientific community and the general public can access the content free of charge as soon as it is published.

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