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Deep Learning for Electroencephalography(EEG) Data Analysis

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Deadline for manuscript submissions:
closed (20 May 2023)

Message from the Guest Editors

Brain–computer interfaces (BCI) aim to make it possible for a human being to communicate with electronic systems via a connection, typically obtained through electroencephalography (EEG), with their neural systems. They have essential applications in the biomedical domain. For example, they are of paramount importance in the case of locked-in patients, as it can be a way for them to interact with the external world.

BCI are applied in many fields other than the medical one, including:

1. Neuromarketing for the evaluation of, for instance, the impact of an advertising campaign
2. Education, where neurofeedback can be used for improving performance
3. Security, where EEG could be used for biometric authentication/recognition
4. Games and entertainment

This Special Issue aims to provide an assorted and complementary collection of contributions showing new advancements and applications of deep learning methods in analyzing EEG signals. The ultimate objective is to promote research and advancement by publishing high-quality research articles and reviews in this rapidly growing interdisciplinary field.

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Message from the Editor-in-Chief

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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