Special Issue

New Insights into AI-Based EEG and Biosignals

Message from the Guest Editors

In recent years, new human–machine interfaces (HMIs) have been developed to facilitate communication and interactions between people with severe motor difficulties and their environment, or even with damaged parts of their own body. By using technologies such as the Internet of Things (IoT) and artificial intelligence techniques, they can satisfy their daily life needs by remotely accessing, controlling and monitoring devices through different biological signals, also known as biosignals, that can come from different parts of their body. A wide variety of these biosignals can be used to interact with HMIs. This Special Issue focuses on the analysis and development of interfaces based not only on brain signals that capture the biosignals produced by the user's neural activity through noninvasive techniques such as electroencephalography (EEG), but also on other biosignals, or a combination of several of them, in order to improve the interaction with the environment and the patient's progress in performing activities such as daily living, a rehabilitation program or their usual therapy based on the joint data extracted.

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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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