Deep Learning in Biomedical Informatics and Healthcare

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Message from the Collection Editors

Artificial intelligence (AI) is already part of our everyday lives, and over the past few years, AI has exploded. Much of that has to do with the wide availability of GPUs that make parallel processing ever faster, cheaper, and more powerful. Deep learning (DL) has enabled many practical applications of machine learning and by extension the overall field of AI. The concept of DL has been applied to numerous research areas, such as mental states prediction and classification, image/speech recognition, vision, and predictive healthcare. The aim of the Special Issue is to collect the latest DL algorithms and applications to be applied in everyday life, contexts, and various research areas, in which biomedical signals, for example, Electroencephalogram (EEG), Electrocardiogram (ECG), and Galvanic Skin Response (GSR), are considered and eventually combined for the user's mental states monitoring while dealing with realistic tasks (i.e., passive BCI), the adaptation of Human–Machine Interactions (HMIs), and for an objective and comprehensive user's wellbeing assessment such as remote and predictive healthcare applications.

TopicalCollection

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Message from the Editor-in-Chief

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