Special Issue

Application of Deep Learning for Neural Systems

Message from the Guest Editors

Different biosignals such as electroencephalography (EEG), electrooculography (EOG), and electromyography (EMG) are indicative of neural system function. Medical images, acquired with computed tomography (CT), magnetic resonance imaging (MRI), ultrasound, and positron emission tomography (PET), can also be used to gather information about the functioning of brain. Based on this information, it is possible to monitor and diagnose a wide range of neurological disorders, including Parkinson's disease, Alzheimer's disease, autism, brain tumors, brain cancer, epilepsy, schizophrenia, mitochondrial dysfunction, attention deficit hyperactivity disorder (ADHD), movement disorders, multiple sclerosis, myopathy, neurodegenerative diseases, neuromuscular disorders, neuropsychiatry, neuropsychology, pain, sleep stages, sleep disorders, stroke, and other neurological diseases. Nowadays, deep learning techniques like convolution neural networks (CNN), long short- term memory (LSTM), autoencoder, deep generative models, and deep belief networks have been efficiently applied to big data.

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Deadline for manuscript submissions

closed (16 November 2020)

International Journal of Environmental Research and Public Health

an Open Access Journal by MDPI

CiteScore 8.5
Indexed in PubMed

mdpi.com/si/43572

International Journal of Environmental Research and Public Health
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mdpi.com/journal/ijerph

International Journal of Environmental Research and Public Health

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