Special Issue

Deep Learning for Multimodal Neuroimaging

Message from the Guest Editor

Deep learning has recently been used to analyze neuroimages, such as structural magnetic resonance imaging (MRI), functional MRI, and positron emission tomography (PET), and it has achieved significant performance improvements over traditional machine learning computer-aided diagnosis of brain disorders and diseases. The principal aim of this Special Issue is to collect studies related to various types of deep neural networks and network architectures, their comparison, and validation applied to non-invasive multimodal neuroimaging techniques, including (but not limited to):

- Electroencephalography (EEG);
- Magnetoencephalography (MEG);
- Magnetic resonance imaging (MRI);
- Functional MRI (fMRI);
- Diffusion MRI (dMRI);
- Diffusion tensor imaging (DTI);
- Positron emission tomography (PET);
- Functional near-infrared spectroscopy (fNIRS);
- Utilizing cutting-edge artificial intelligence neurodiagnostic schemes;
- Neurotherapeutic approaches of non-invasive brain stimulation;
- Transcranial magnetic stimulation (TMS);
- Transcranial electric stimulation (TES);
- Temporal interference stimulation (TIS).

Guest Editor

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About the Journal

Message from the Editor-in-Chief

Algorithms are the very core of Computer Science. The whole area has been considered from quite different perspectives, having led to the development of many sub-communities: Complexity theory (limitations), approximation or parameterized algorithms (types of problems), geometric algorithms (subject area), metaheuristics, algorithm engineering, medical imaging (applications), indicates the range of perspectives. Our journal welcomes submissions written from any of these perspectives, so that it may become a forum for exchange of ideas between the corresponding scientific subcommunities.

Editor-in-Chief

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