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Special Issue on Deep Learning for Biomedical and Healthcare Applications

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Topics of Interests

The aim of this special issue is to report state-of-the-art advances and achievements in the field of deep learning, addressing both innovative theories, model development, and original applications in biomedical and healthcare fields. Topics for this special issue include, but are not limited to, theoretical and application results for deep learning related to biomedical and healthcare problems:

- Methods for hybrid and heterogeneous data (X-ray, ultrasound, MRI, CT, and text)
- Novel applications of architectures such as multilayer perceptrons, convolution networks, deep belief networks, and long short term memory.
- Innovative uses of frameworks such as Torch, Caffe, Theano, and TensorFlow.
- Applications of 3D convolution (for MRI, Cat Scan, CT) and NLP networks
- Generative and adaptive models for clinical decision making
- Methods for human body sensor data fusion
- Efficient and relevant feature extraction and representation for data
- Algorithms for large-scale medical image mining and classification
- Novel methods and applications for classification, detection and segmentation in imagery
- Effective organ detection methods
- Medical informatics and public health
- Practical and reliable systems for assistant medical diagnosis
- Precision medicine
- Big data analysis for healthcare management to enhance efficiency and effectiveness

Papers will be subject to a double-blind review process.

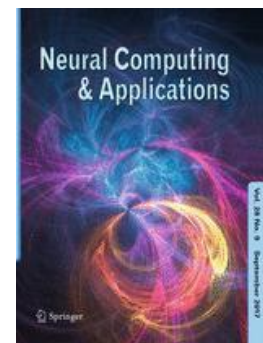
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For more information, send to the guest editors:

Dr. Chao Tong, tongchao@buaa.edu.cn

Dr. Larry Medsker, lrmed@gwu.edu

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