CALL FOR PAPERS

Brain Informatics
Special Issue on
Machine Learning Techniques for
Neuroscience Big Data

Guest Editors

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Developing data-intensive tools to process and analyse the neuronal big data is one of the biggest challenges posed to today’s multidisciplinary brain science community. To share recent progress in decoding neuronal information processing, both in healthy and diseased brain, this special issue aims to provide a forum for scientists from diverse disciplines including – computer, electrical, biomedical, and neuro engineering – who are looking for more relevant information in interpreting brain functions and diagnosing diseases using Machine Learning based techniques.

This Special Issue will focus on the latest machine learning techniques and methods of analysing Neuroscience Big Data. Researchers and practitioners working in related areas are invited to submit research papers for possible publication in this issue.

The topics may include but are not limited to the following list:

- Processing and modelling of neuronal data for disease diagnosis and brain decoding;
- Bio-inspired methods for network analysis and pattern recognition in neural data;
- Novel machine learning techniques for neuronal big data analysis;
- Application of deep and/or reinforcement learning to neuronal big data analysis;
- Computationally intelligent techniques for neuroscience applications;
- Machine learning inspired Neuroinformatics (including cloud computing and real-time systems).

Important Dates

- Paper submission deadline: June 30, 2019
- First round notification: July 31, 2019
- Final decision notification: September 30, 2019

Submission Instructions

For submission instructions please visit the journal website at
https://braininformatics.springeropen.com/submission-guidelines

or contact Dr. Mufti Mahmud at Mufti.Mahmud@ntu.ac.uk

The complete manuscript should be submitted through online submission system at:
https://www.editorialmanager.com/brai/default.aspx