Neural Plasticity

Hindawi

Special Issue on

Advanced Research for Brain Networks Using Multimodal Brain Imaging Data

CALL FOR PAPERS

Human brain is a complex network. Graph theory-based analysis is a powerful technique to quantitatively describe the hierarchical organization of brain connectivity. Graph properties of brain networks have been evaluated using multiple brain imaging data. Results show that the brain connectivity shows small-world and rich-club organization. Reliable biomarkers of brain diseases are also detected by graph analysis.

We invite investigators to contribute original research articles as well as review articles that will continually contribute to reveal biomarkers of mental illnesses and to develop new strategies to build brain graphs with single- and multimodal imaging data.

Potential topics include, but are not limited to:

- Advanced research for investigating topological properties of brain connectivity using imaging data including but limited to fMRI, DTI, structural MRI, and genetic data
- Advanced research for investigating biomarkers of brain diseases including but not limited to schizophrenia, bipolar, and depression with graph analysis
- Advanced research for developing novel methods to construct multimodal brain graphs using multimodal brain imaging data

Authors can submit their manuscripts via the Manuscript Tracking System at http://mts.hindawi.com/submit/journals/np/bnid/.

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