Applied Computational Intelligence and Soft Computing

Special Issue on
Neural Computing Techniques in Data Mining with Big Data

CALL FOR PAPERS

With the popularity of Internet, big data has brought ever-increasing impact on many domains. Big data is characterized by '4Vs': volume, variety, velocity, and veracity that bring great challenges in data understanding and analysis. Neural computing is shown to be promising in addressing the complex data mining problems. However, how to deal with big data effectively and efficiently remains an open problem in the field of neural computing theory and applications, which has attracted rich research attention nowadays.

This special issue targets a mixed audience of researchers from different communities to address difficult data mining problems with big data using neural computing techniques. We invite authors to submit original research articles as well as review articles to present advanced neural computing techniques used in big data environment. Applications to solve real-world problems and use real data are also encouraged.

Potential topics include but are not limited to the following:

- Neural computing theory for big data in
    - Supervised and unsupervised neural learning methods
    - Transfer of neural learning algorithms
    - Neural network and deep learning
    - Graph mining
    - Subspace learning methods
    - Neurofuzzy system
    - Hybrid and ensemble neural computing
    - Cost-sensitive and class imbalance neural learning
    - Multilabel neural learning
    - Distributed and parallel neural computing
    - Incremental neural learning
    - Online neural computing
- Neural computing applications for big data in
    - Healthcare and medical diagnosis
    - Social network modeling
    - Financial risk assessment
    - Marketing and E-commerce
    - Multimedia data mining
    - Education data learning
    - Location big data mining
    - Intelligent transportation system
    - Web mining
    - Network security
    - Smart device

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