Applied Computational Intelligence and Soft Computing

Special Issue on
Advances in Large-Scale Data Analysis Based on Soft Computing

CALL FOR PAPERS

In the era of big data, data are becoming large scale with high-dimensional attributes. There are often many redundant and noisy data points in large scale data, so how to select useful samples and extract the effective features is an important issue in the field of the large-scale data processing. Soft computing is the combination of methodologies intended to model and make possible solutions to real world challenging problems. Its aspiration is to utilize the tolerance for approximation, uncertainty, imprecision, and partial truth in order to achieve close resemblance with human-like decision-making. The key to a successful soft computing method for large-scale data analysis is to select useful samples and suitable features for achieving a higher accuracy which by less time can be achieved.

This special issue aims at creating a multidisciplinary forum of discussion on recent advances in large-scale data analysis methods as well as new applications to time series prediction, signal processing, pattern recognition, biometrics and bioinformatics, optimization problem, medicine image processing, and so on. The accepted papers will show a diversity of new developments in these areas. This issue accepts high-quality research papers as well as review articles addressing recent advances in large-scale data analysis based on soft computing.

Potential topics include but are not limited to the following:

- ▶ New sample selection methods for large-scale machine learning
- ▶ New feature extraction methods for large-scale data preprocessing
- ▶ Clustering analysis methods for large-scale data processing
- ▶ Classification methods for large-scale data processing
- ▶ Mining big data in various application domains based on soft computing methods
- ▶ New programming patterns for large-scale data processing

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