



Applications of Big Data Analysis and Modeling

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Message from the Guest Editors

In the era of big data, the core research fields of both academia and industry reside in data-driven applications, consisting of many machine learning approaches, such as supervised, semi-supervised and unsupervised learning, aiming to mine valuable information from the big data to provide convenience to our daily lives. The aim of this Special Issue is to publish cutting-edge original research papers on the latest advances in the analysis and application of big data in the development of machine learning approaches, including theories, models, algorithms, and applications in the real world.

Potential topics of interest include, but are not limited to:

- Machine learning theories/models/algorithms;
- Embedding/representation methods;
- Feature selection and clustering;
- Graph neural networks/graph convolutional networks;
- Complex network analysis based on GNNs;
- Sentiment analysis and text classification;
- False account/news detection for online social networks;
- Applications in NLP, emotional analysis, computer vision, intelligent traffic, recommendation system, financial, new medicine design, epidemiologic modeling, etc.





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Message from the Editor-in-Chief

The journal *Mathematics* publishes high-quality, refereed papers that treat both pure and applied mathematics. The journal highlights articles devoted to the mathematical treatment of questions arising in physics, chemistry, biology, statistics, finance, computer science, engineering and sociology, particularly those that stress analytical/algebraic aspects and novel problems and their solutions. One of the missions of the journal is to serve mathematicians and scientists through the prompt publication of significant advances in any branch of science and technology, and to provide a forum for the discussion of new scientific developments.

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