

Special Issue

Advanced Neural Network and Machine Learning Algorithms, Models and Architectures in Data Mining

Message from the Guest Editors

With the popularity of large models, the field of data mining is facing new challenges and opportunities, and new machine learning methods and neural network models are continuously emerging. This Special Issue is titled "Advanced Neural Network and Machine Learning Algorithms, Models and Architectures in Data Mining" and focuses on new machine learning and neural network models in the field of data mining, including graph neural network models, transformers, and large language models. Key topics include machine learning architectures (such as deep neural networks and reinforcement learning), data analysis methods in intelligent systems, and clustering models and prediction models for multimodal data. Contributions should emphasize mathematical innovations, such as new neural network learning models, memory models, and new methods and techniques for data processing, such as images, text, sequence data, spatiotemporal data, etc. This Issue aims to connect emerging data mining methods with the application of data-driven machine learning methods in the real world.

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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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