

Special Issue

Data Mining and Machine Learning in the Era of Big Knowledge and Large Models

Message from the Guest Editors

In recent years, the fields of data mining and machine learning have undergone a transformative shift with the advent of big data and the development of increasingly complex models. This Special Issue aims to explore the latest advancements, challenges, and applications in data mining and machine learning within the context of big knowledge and large models. We invite researchers to contribute original research articles, reviews, and short communications on topics related to data mining and machine learning, including but not limited to the following: Scalable algorithms for big data analysis; Deep learning architectures and techniques; Transfer learning and domain adaptation in large-scale models; Federated learning and distributed machine learning systems; Explainable AI and interpretable machine learning models; Privacy-preserving data mining and machine learning; Secure and trustworthy machine learning; Reinforcement learning in complex environments; Meta-learning and automated machine learning; Optimization techniques for large-scale models; Applications of data mining and machine learning in real-world scenarios.

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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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