

Special Issue

Mathematical Foundations and Practical Applications of Data Mining and Deep Learning

Message from the Guest Editor

We invite high-quality research and review articles that address the following topics:

- Mathematical Foundations in Smart Industry and Automation: Optimization algorithms and mathematical modeling for predictive maintenance, digital twins, and process optimization;
- Computational Methods in AI for Healthcare: Probabilistic modeling and statistical learning for medical imaging, disease prediction, and AI-assisted diagnostics;
- Mathematical Finance and Business Analytics: Risk assessment, fraud detection, and market analysis using optimization techniques and time-series modeling;
- Mathematical Modeling for Energy and Sustainability: Smart grid optimization and renewable energy forecasting using graph theory and statistical methods;
- Optimization and AI in Logistics and Supply Chain: Route optimization, demand forecasting, and autonomous transportation through reinforcement learning and mathematical programming;
- Mathematical Approaches to Cybersecurity and Privacy: AI-driven anomaly detection, cryptanalysis, and privacy-preserving Data Mining with advanced statistical frameworks.

Guest Editor

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About the Journal

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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