# **Special Issue**

# Intelligent Financial Systems: Algorithms, Learning, and Decision Mechanisms

## Message from the Guest Editors

Accelerating progress in machine learning, deep learning, and generative AI is transforming the financial sector across trading, portfolio management, banking, payments, and insurance. This Special Issue invites submissions on AI in finance that combine methodological rigor with demonstrable impact. Submissions may include deployed or near-deployment applications, high-fidelity simulations, and industry–academic collaborations; works addressing governance and assurance (e.g., robustness, fairness, privacy, and accountability); and surveys that consolidate current practice and identify research frontiers.

- Al and finance
- financial time series
- machine learning
- deep learning
- neural networks
- large language models
- retrieval-augmented generation
- Al agents
- graph learning
- reinforcement learning
- causal inference
- portfolio optimization
- risk management
- algorithmic trading
- sentiment analysis
- text mining
- data mining

### **Guest Editors**

Dr. Qinxu Ding

Dr. Zhiyuan Wang

Dr. Chongwu Xia

### Deadline for manuscript submissions

31 July 2026



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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.

### Editor-in-Chief

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