

Special Issue

Advanced Algorithms for Multi-Modal Learning, Knowledge Graphs, and Trustworthy AI

Message from the Guest Editor

We are pleased to announce this Special Issue of *Mathematics* entitled “Advanced Algorithms for Multi-Modal Learning, Knowledge Graphs, and Trustworthy AI.” This Special Issue aims to bring together high-quality research contributions that advance the theoretical foundations, algorithmic design, and practical implementations of trustworthy and efficient AI systems. With the rapid integration of multi-modal learning and knowledge graphs into modern intelligent systems, new challenges have emerged in ensuring fairness, interpretability, robustness, and data privacy. We invite original research and comprehensive review papers that explore innovative algorithmic strategies and applications across various domains, including multi-modal data fusion, knowledge reasoning, graph representation learning, privacy-preserving AI, and responsible generative models. This Special Issue welcomes interdisciplinary submissions that bridge mathematics, computer science, and real-world applications to foster the development of transparent, secure, and human-centric AI.

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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manuscripts are peer-reviewed and a first decision is provided to authors approximately 17.3 days after submission; acceptance to publication is undertaken in 2.8 days (median values for papers published in this journal in the second half of 2025).