

Special Issue

Big Data Mining and Knowledge Graph with Application

Message from the Guest Editors

This Special Issue aims to promote research that bridges methodological innovations in knowledge modeling with domain-grounded applications, demonstrating both technical novelty and practical impact. We particularly welcome submissions that align with one or both of the following interconnected tracks:

- **Track 1: Methodological Foundations**
 - Knowledge graph construction, alignment, and dynamic evolution;
 - Representation learning and distributional semantic modeling (e.g., normalizing flows, diffusion-based reversible generation);
 - Integration of structured knowledge with generative AI frameworks, including GraphRAG;
 - Knowledge-guided mining and reasoning with enhanced interpretability and controllability.
- **Track 2: Domain-Grounded Applications**
 - Scene-oriented knowledge graphs and reasoning in intelligent transportation, urban safety, and low-altitude airspace (e.g., UAV coordination);
 - Knowledge-based systems in education, healthcare, and scientific knowledge discovery;
 - Deployment and evaluation of scalable, knowledge-enhanced AI systems in real-world settings;

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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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