

Special Issue

Research on Graph Neural Networks and Knowledge Graph

Message from the Guest Editors

Graph Neural Networks (GNNs) and Knowledge Graphs have emerged as powerful tools in artificial intelligence and data science. GNNs excel at processing graph-structured data, while Knowledge Graphs effectively represent and organize complex relationships between entities. These technologies have found applications across numerous domains including recommendation systems, drug discovery, social network analysis, and natural language processing. The advances in these fields have enabled more sophisticated ways to capture and utilize structural information in data. This Special Issue focuses on innovative approaches and applications in GNNs and Knowledge Graphs. It provides a platform for researchers to present their novel work in areas such as graph representation learning, knowledge graph completion, reasoning over graphs, and their real-world applications. This will help advance our understanding of graph-based deep learning and knowledge representation.

Guest Editors

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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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