

Special Issue

Machine Learning and Graph Neural Networks

Message from the Guest Editor

The research field of machine learning for graphs studies the application of well-known machine learning concepts to the processing of graph-structured data. Graphs are abstract objects that naturally represent interacting systems of entities, where interactions denote the functional and/or structural dependencies between them. Graph Neural Networks are a recent family of machine learning models specifically designed to harness the inherent structure and dependencies present in graph-structured data, revolutionizing the way we analyze, model, and make predictions in complex networked structures. The Special Issue aims to cover applications where machine learning and Graph Neural Networks have proven to be effective. We invite authors from academia and industry to contribute their original research articles, surveys, and high-quality review papers that demonstrate the effectiveness of machine learning and Graph Neural Networks in solving real-world problems while showcasing the latest developments and novel applications.

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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