

Special Issue

Causal Discovery and Its Applications

Message from the Guest Editor

Causality is a fundamental notion in science and engineering. It is becoming increasingly clear that causal modeling benefits many tasks such as disease treatment, decision-making, recommender systems, adaptive/robust prediction, anomaly detection, and data generation. One focus of this Special Issue is on the fundamental problem causal discovery, i.e., how to discover the causal structure or the underlying causal model from the observations with automated procedures? Besides causal discovery, another focus is on the applications of causal discovery, as causality-inspired machine learning in real applications scenarios can generally be well understood, so as to improve the performance, stability or explainability of the model. This Special Issue is open to methodological and applied works which can provide insightful contributions to the topic.

Guest Editor

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Deadline for manuscript submissions

25 November 2025



Mathematics

an Open Access Journal
by MDPI

Impact Factor 2.2
CiteScore 4.6



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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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