

Special Issue

Machine Learning and Statistical Methods to Prediction and Optimal Decision-Making

Message from the Guest Editors

Prediction and decision making are hot topics in today's economy and society. Technological advancement has enabled new approaches to be applied for finding the best decision-making strategies, together with statistical modeling. However, there are factors imposed by the nature of industry that constitute major challenges for building high-performance prediction or decision-making models in real-world applications. How to analyze complex and high-dimensional data is another great challenge faced by practitioners in building prediction models. The data can be collected from heterogenous sources, imposing open questions regarding how to integrate different types and sources of data to make decisions or predictions. All these challenges can be tackled from either theoretical or applied points of view. This Special Issue welcomes theoretical and applied research papers that explore machine learning and statistical methods in prediction and decision making. Papers related to this theme are especially encouraged, including papers on mathematics, machine learning, computer science, and statistics that investigate their roles in decision making and prediction.

Guest Editors

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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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