

Special Issue

Game Theory and Decision Theory Analysis and Applications

Message from the Guest Editors

Game theory and decision theory form the mathematical foundation for analyzing strategic interactions and optimal choices under uncertainty. Over the past decades, these disciplines have evolved from abstract constructs to powerful tools applied across economics, engineering, computer science, political science, and beyond. This Special Issue brings together a curated collection of articles that showcase recent advances in both the theoretical development and practical application of game-theoretic and decision-theoretic frameworks. The selected contributions span a broad spectrum—from classical Nash equilibria and Bayesian decision models to emerging domains such as algorithmic game theory, behavioral decision analysis, and learning in strategic environments. Whether through reinforcement learning, stochastic modeling, or mechanism design, these papers reflect the growing synergy between analytical rigor and applied relevance. Authors explore applications in multi-agent systems, security and resource allocation, human-machine interaction, and economic policy design, offering insights into the development of formal models.

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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