

Special Issue

Game and Decision Theory Applied to Business, Economy and Finance

Message from the Guest Editor

Game theory is the branch of Mathematics dedicated to the design of models able to make predictions, under the assumption that the agents under interaction (negotiation) are rational. Game theory can be applied to several different research fields, including computer and social science. It has been applied in business, financial decisions, presidential elections, jury decisions in trials and biology in general. The origin of game theory came out from the necessity of taking logical decisions inside conflicts and negotiations when several possible choices emerge. Within game theory, the information available for each player is crucial for making decisions. The purpose of this special issue is to contribute papers applying game theory to the industry, business, economy and finance in general. Alternative contributions focusing on other areas might be also considered, as far as the research involves decisions based on quantitative analysis. Models based on decision trees, machine learning, Quantum Finance, Practical applications of Quantum Mechanics, Financial Mathematics, Econophysics and others are also welcome.

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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