Special Issue

New Advances in Quantitative Environmental Finance

Message from the Guest Editors

By linking theories and modeling techniques in finance and the environmental sciences via mathematics and data science, and then studying the practical applications of these to environment-linked securities, we aim to assess, manage, and reduce all manner of environmental- and climate-related risks that are currently threatening our planet. Actions and solutions require financing, so understanding the generation and flows of finance is essential to understand large-scale environmental change and management. We are looking for research that integrates how the world works (modern finance) and how the planet works (sciences). Examples include catastrophe bonds (that fund recovery from hurricanes, floods, earthquakes, and volcanic eruptions), weather derivatives (that hedge the financial risks of weather-dependent renewable energy projects, as well as agricultural production), emission trading systems to reduce emissions, green bonds, ESG portfolios, and debt-for-nature swaps that fund the creation and management of aquatic and terrestrial ecosystems.

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Deadline for manuscript submissions

closed (30 September 2024)

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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