



New Advances in Quantitative Environmental Finance

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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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Message from the Editor-in-Chief

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