Special Issue

Advances in Time Series Analysis and Forecasting with Applications in Disaster and Climate Risk Management

Message from the Guest Editor

Advancements in time series analysis have improved precision and accuracy in the analysis of non-Gaussian, nonlinear, and non-stationary systems over time. These methods provide valuable insights for applications such as forecasting financial risks and socioeconomic time series. The growing interest in solutions for improving disaster risk management, climate adaptation, and resilience necessitates the development of advanced models to assess the risks induced by climatic/meteorological trends or multi-hazard disasters. Such assessments and forecasts are essential to building effective solutions for managing these risks as well as increasing adaptation and resilience. Recently, advanced machine learning models have been developed for weather and climate forecasting, and they are used in climate adaptation, early warning systems, and disaster risk reduction. However, they need further development to be employed in practical settings, from disaster and climate impact forecasting models to scenario-based risk assessments, while taking into account the non-stationary, complex, and high-dimensional nature of these risk factors.

Guest Editor

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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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