

# Special Issue

## Statistical and Stochastic Models in Epidemiology

### Message from the Guest Editor

This Special Issue welcome contributions that address both methodological foundations and practical applications, including but not limited to probabilistic modelling, likelihood-based and Bayesian inference, machine learning integration, and simulation-based methodologies. Relevant model classes include compartmental models, stochastic differential equations, agent-based models, network models, metapopulation frameworks, time series and stochastic processes, geospatial and autocorrelation methods, and modern machine learning or hybrid techniques. We encourage submissions that advance the understanding of epidemic and endemic processes through novel modelling paradigms, rigorous inference from data, and computational statistics. We seeks to promote interdisciplinary research that bridges mathematics, statistics, epidemiology, computer science, and public health. Our objective is to foster collaboration between theoreticians and practitioners, champion reproducible and interpretable methodologies, and highlight cutting-edge developments that enhance global preparedness and response to diverse disease threats.

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### Guest Editor

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### Deadline for manuscript submissions

10 July 2026



## Mathematics

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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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### Editor-in-Chief

Prof. Dr. Francisco Chiclana  
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