

Special Issue

Modelling, Analysis, and Applications for Biomathematics

Message from the Guest Editor

This Special Issue is dedicated to advancing the interdisciplinary field of biomathematics, with a focus integrating mathematical theories and computational techniques to address complex biological questions. It aims to showcase innovative research that bridges mathematical modeling and biological applications, fostering quantitative understanding across scales—from molecular and cellular processes to ecosystems and population dynamics. The scope includes, but is not limited to, the following topics:

- Dynamical systems and differential equation models in ecology and epidemiology;
- Stochastic processes, statistical analysis, and probabilistic methods in genetics and evolution;
- Computational and algorithmic approaches in bioinformatics and systems biology;
- Network theory and topological analysis of biological interactions;
- Data-driven modeling and simulation for biomedical and public health challenges.

We welcome contributions that demonstrate how mathematical tools can decode biological mechanisms, predict behaviors, and inform real-world decision-making. By uniting diverse methodologies, this Issue seeks to highlight the transformative role of mathematics in modern life sciences.

Guest Editor

Dr. Baochao Liao

Department of Mathematics, Shandong University, Weihai 264209, China

Deadline for manuscript submissions

31 July 2026



Mathematics

an Open Access Journal
by MDPI

Impact Factor 2.2
CiteScore 4.6



mdpi.com/si/262027

Mathematics
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
mathematics@mdpi.com

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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.

Editor-in-Chief

Prof. Dr. Francisco Chiclana
School of Computer Science and Informatics, De Montfort University,
The Gateway, Leicester LE1 9BH, UK

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manuscripts are peer-reviewed and a first decision is provided to authors approximately 17.3 days after submission; acceptance to publication is undertaken in 2.8 days (median values for papers published in this journal in the second half of 2025).