

# Special Issue

## Numerical Methods in Mathematical Biology

### Message from the Guest Editor

This Special Issue will discuss various numerical methods to solve problems in mathematical biology. It is dedicated to the construction and analysis of existing and novel numerical methods to solve partial differential equations (cross diffusion, fractional, stochastic, and integro-differential) modelling real-life applications in the broad field of mathematical biology. Such applications can include, but are not limited to, the following:

- Population dynamics;
- Infectious disease modelling;
- Immune and cell dynamics;
- Gene networks;
- Drug development;
- Ecology;
- Predator-prey models.

The numerical methods can include standard finite difference, nonstandard finite difference, finite element, finite volume, and artificial neural networks.

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### Guest Editor

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### Deadline for manuscript submissions

31 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

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