# **Special Issue**

# Complex Biological Systems and Mathematical Biology

### Message from the Guest Editors

Mathematical models play an increasingly important role in the prediction and early warning of emerging infectious disease outbreaks or developments in noncommunicable diseases, optimizing nonpharmaceutical interventions, therapeutic strategies, and so on. We believe that modelers can make substantial contributions to innovating modelling and analysis methods, providing a better understanding of the dynamic mechanisms of complex biological systems, and helping to solve the current major issues in biomedicine. For this reason, we have initiated a Special Issue focusing on new developments in the fastgrowing field of mathematical models of complex biological systems. Potential topics include—but are not limited to—the following:

- Mathematical modelling and analysis to understand complex biological systems;
- Dynamic mechanism of complex biological systems;
- Optimization and control for complex biological systems;
- Data-driven modeling of complex biological systems;
- Machine learning approaches to biological systems;
- Advanced computational methods and data science for biology and biomedicine, etc.

#### **Guest Editors**

Dr. Biao Tang

School of Mathematics and Statistics, Xi'an Jiaotong University, Xi'an 710049, China

#### Dr. Xia Wang

School of Mathematics and Statistics, Shaanxi Normal University, Xi'an 710119, China

#### Deadline for manuscript submissions

closed (31 August 2024)



# **Mathematics**

an Open Access Journal by MDPI

Impact Factor 2.2 CiteScore 4.6



mdpi.com/si/114757

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

mdpi.com/journal/ mathematics



# Σ

# **Mathematics**

an Open Access Journal by MDPI

Impact Factor 2.2 CiteScore 4.6



mathematics



# 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

### **Author Benefits**

### High Visibility:

indexed within Scopus, SCIE (Web of Science), RePEc, and other databases.

#### Journal Rank:

JCR - Q1 (Mathematics) / CiteScore - Q1 (General Mathematics )

### **Rapid Publication:**

manuscripts are peer-reviewed and a first decision is provided to authors approximately 18.4 days after submission; acceptance to publication is undertaken in 2.4 days (median values for papers published in this journal in the first half of 2025).