



an Open Access Journal by MDPI

Advances in Bio-Dynamics and Applications

Guest Editor:

Dr. Benjamin Ambrosio

Laboratory of Applied Maths of Le Havre, Normandie University, 76600 Le Havre, France

Deadline for manuscript submissions: **31 December 2024**

Message from the Guest Editor

This Special Issue aims to compile research articles focusing on the qualitative analysis of dynamical systems modeling life science phenomena. From PDEs to networks and complex systems, whether deterministic or stochastic, dynamical systems offer countless possibilities to account for observed phenomena in biology.

The goal is to provide qualitative analysis of models. This includes theoretical perspectives such as: asymptotic behavior, stability, oscillations, bifurcation, rhythms, emergent properties, synchronization, etc. Applications of interest include neuroscience, epidemiology, ecosystems, etc. However, any contribution relevant to life sciences is welcome. This includes fundamental ideas coming from physics.

This Special Issue welcomes original research articles, short communications, and review papers that cover research that is on the forefront of advances in biodynamics and applications.

oecialsue



mdpi.com/si/170069





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Francisco Chiclana

School of Computer Science and Informatics, De Montfort University, The Gateway, Leicester LE1 9BH, UK

Message from the Editor-in-Chief

The journal *Mathematics* publishes high-quality, refereed papers that treat both pure and applied mathematics. The iournal highlights articles devoted to the mathematical treatment of questions arising in physics, chemistry, biology, statistics, finance, computer science, engineering sociology. particularly those that and 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.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions. **High Visibility:** indexed within Scopus, SCIE (Web of Science), RePEc, and other databases. **Journal Rank:** JCR - Q1 (*Mathematics*) / CiteScore - Q1 (*General Mathematics*)

Contact Us

Mathematics Editorial Office MDPI, St. Alban-Anlage 66 4052 Basel, Switzerland Tel: +41 61 683 77 34 www.mdpi.com mdpi.com/journal/mathematics mathematics@mdpi.com X@MathematicsMDPI