



Advances in Bio-Dynamics and Applications

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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 bio-dynamics and applications.





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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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