

Special Issue

Theory and Application of Difference and Differential Equations in Life Sciences

Message from the Guest Editors

Difference and differential equations have been applied in a wide range of fields including physics, chemistry, biology, ecology, epidemiology, economics, engineering, electronics, neural networks, and many other real-world fields. This Special Issue invites papers on innovative proposals of theory and the application of difference and differential equations in the life sciences. We encourage submissions that highlight the interplay between theoretical foundations and real-world applications, fostering a deeper understanding of complex phenomena in the life sciences. The scope of this Special Issue includes, but is not limited to, the following topics:

- Models and applications of difference equations;
- The qualitative behaviors of differential equations;
- Deterministic and stochastic population ecology;
- The stability and control of complex networks;
- The modeling and prevention of infectious diseases

Guest Editors

Prof. Dr. Chunrui Zhang
Prof. Dr. Ming Liu
Dr. Xiaofeng Xu

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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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Rapid Publication:

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).