



Mathematical Modeling in Chaotic and Bio-Inspired Systems

Guest Editor:

Prof. Dr. Ruben Vazquez-Medina

Instituto Politécnico Nacional,
Centro de Investigación en
Ciencia Aplicada y Tecnología
Avanzada Unidad Querétaro, Av.
Cerro Blanco 141, Colinas del
Cimatario, Querétaro 76090,
Mexico

Deadline for manuscript
submissions:

20 May 2025

Message from the Guest Editor

Dear Colleagues,

Mathematical modeling allows us to analyze and describe the nonlinear behavior of nature's systems and phenomena, which can be synthesized using soft- and hard-processors, electronic devices, and computational systems. Moreover, with the support offered by neural processing and deep learning systems, it is possible to simulate or emulate the behavior of systems applicable in communications, computing, big data, aeronautics, transportation, electrification, electromobility, medicine, and industrial fields, among others. This Special Issue provides a platform for researchers from academia and industry to present novel and unpublished work related to the mathematical modeling of chaotic and bio-inspired systems with the idea of promoting new research in emerging fields for the analysis and synthesis of nonlinear systems in nature.





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 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.

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, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/mathematics
mathematics@mdpi.com
[X@MathematicsMDPI](https://twitter.com/MathematicsMDPI)