

# Special Issue

## Nonlinear Dynamical Systems: Modeling, Control and Applications

### Message from the Guest Editors

This Special Issue aims to explore the multiple applications of dynamical systems in engineering sciences [biomedical, chemistry, control, electric, electronic, mechanical, etc.]. Mathematical modeling, analysis, control, and simulation are critical steps to fully understand both the short- and long-term behavior of a dynamical system; this allows us to evaluate its performance under different scenarios [initial conditions, parameter values, and disturbances] and their suitability to solve real-life problems. We are pleased to invite you to contribute to an exciting and fascinating topic, where nonlinear control theory can be the main tool for solving the most challenging engineering problems, from cancer to robotics, from energy efficiency to underwater vehicles, from biochemical reactors to disease-spreading modeling, and more. Please reach us if you have questions about your submission.

### Guest Editors

Dr. Luis N. Coria

Instituto Tecnológico de Tijuana, Calz. del Tecnológico S/N, Tomás Aquino, Tijuana 22414, Mexico

Prof. Dr. Paul A. Valle-Trujillo

Postgraduate Program in Engineering Sciences, BioMath Research Group, Tecnológico Nacional de México/IT Tijuana, Blvd. Alberto Limón Padilla s/n, Tijuana 22454, Mexico

### Deadline for manuscript submissions

30 May 2026



# Mathematics

an Open Access Journal  
by MDPI

Impact Factor 2.2  
CiteScore 4.6



[mdpi.com/si/214070](https://mdpi.com/si/214070)

*Mathematics*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[mathematics@mdpi.com](mailto:mathematics@mdpi.com)

[mdpi.com/journal/  
mathematics](https://mdpi.com/journal/mathematics)





# Mathematics

---

an Open Access Journal  
by MDPI

---

**Impact Factor 2.2**  
**CiteScore 4.6**



[mdpi.com/journal/  
mathematics](https://mdpi.com/journal/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).