

# Special Issue

## Mathematical Methods in Nonlinear Waves and Dynamical Systems

### Message from the Guest Editor

This Special Issue, "Mathematical Methods in Nonlinear Waves and Dynamical Systems" is open for submissions and welcomes research and review papers on the development of mathematical methods in the study of nonlinear waves and the broad interdisciplinary area of dynamical systems, including coherent structures, chaos, and nonlinear dynamics. Recent progress in the natural sciences, such as the study of non-Hermitian physics, nonlocal differential equations, differential equations on metric graphs, dynamics of complex networks, etc., require new approaches and novel applications of established mathematical tools. This Special Issue aims at hosting a representative sample of works on these advances. Keywords

- Nonlinear waves
- Solitary waves
- Coherent structures
- Pattern formation
- Oscillators
- Chaos
- Asymptotic methods
- Variational formulations
- Stability theory

---

### Guest Editor

Prof. Dr. Hadi Susanto

Department of Mathematical Sciences, University of Essex, Colchester  
CO4 3SQ, UK

---

### Deadline for manuscript submissions

closed (29 February 2020)



## Mathematics

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.3  
CiteScore 4.0



[mdpi.com/si/26926](https://mdpi.com/si/26926)

*Mathematics*

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 2.3  
CiteScore 4.0



[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 18.3 days after submission; acceptance to publication is undertaken in 1.9 days (median values for papers published in this journal in the second half of 2024).