Special Issue

New Advances in Low Dimensional Dynamical Systems

Message from the Guest Editor

Dynamical systems has long been deeply connected with topological methods in low dimensions. Concepts such as hyperbolicity and symbolic dynamics, knot theory, and many others have played a fundamental role in advancing our understanding of both discrete and continuous time systems. We are pleased to announce a Special Issue of *Mathematics* dedicated to showcasing recent advances in this area as well as their practical applications, including numerical simulations and computer-assisted proofs. We invite high-quality contributions, including both original research articles and surveys, broadly related to the following topics:

- Hyperbolic and partially hyperbolic systems in low dimensions;
- Templates and knot theory of periodic orbits of flows;
- Thurston–Nielsen classification and minimal representatives of diffeomorphisms;
- Minimal sets, indices, and robust dynamics;
- Bifurcations of low dimensional systems.

This Special Issue aims to foster collaboration and bring together experts in both topological methods and their applications. We are especially eager to encourage contributions from early-career researchers and are committed to providing a fair and timely review process.

Guest Editor

Dr. Tali Pinsky

Faculty of Mathematics, Technion–Israel Institute of Technology, Haifa, Israel

Deadline for manuscript submissions

31 August 2026

Σ

Mathematics

mdpi.com/si/255150

mdpi.com/journal/ mathematics

MDPI

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).