



Modeling and Analysis in Dynamical Systems and Bistability

Guest Editors:

Prof. Dr. Wei Zhang

College of Mechanical
Engineering, Beijing University of
Technology, Beijing 100124,
China

Prof. Dr. Yuxin Hao

College of Mechanical
Engineering, Beijing Information
Science and Technology
University, Beijing 100192, China

Prof. Dr. Youhua Qian

Department of Mathematics,
Zhejiang Normal University,
Jinhua 321004, China

Deadline for manuscript
submissions:

closed (15 September 2023)

Message from the Guest Editors

The primary purpose of this Special Issue is to present original research articles and review articles, which will help with the understanding of how to establish mathematical models and methods for analyzing dynamical systems with a particular interest in systems with bi-stable structures, furthermore, contributing to the understanding of their unique dynamic behaviors and reveal the mechanism behind them, as well as the utilization of the results in advanced science applications. The topics of interest include but are not limited to the following:

- New researches on modeling and numerical simulations of dynamical systems;
- Dynamics and control of complex systems;
- Advanced modeling and analysis for bi-stable systems;
- Natural vibration of bi-stability laminate structures;
- Recent research on nonlinear dynamics of bi-stability structures;
- Recent advances about bifurcation behaviors of dynamical systems and bi-stable systems;
- Recent advances about analysis methods of bi-stable dynamic systems;
- Studies on the applications of bi-stability structures in energy harvesters;
- Studies on the applications of bi-stability structures in shock absorbers.





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, St. Alban-Anlage 66
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)