

## Special Issue

# Differential Equations and Dynamical Systems—Theory and Applications

### Message from the Guest Editor

It is well established that dynamical systems have various applications in modeling the dynamics of many real-life phenomena and processes, including physics, chemistry, engineering, life sciences, economic, etc. In the stability theory of linear dynamical systems, a central problem is to find conditions for the existence of stability, dichotomy, or trichotomy of their solutions. This Special Issue of *Axioms* deals with the stability theory of continuous and discrete dynamical systems and their advanced applications. Research areas may include (but are not limited to) the following: Ordinary differential equations; Partial differential equations; Delay differential equations; Fractional differential equations; Functional equations; Integral equations; Impulsive equations; Dynamical systems on time scales; Difference equations; Stochastic processes.

---

### Guest Editor

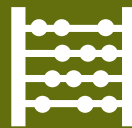
Dr. Nicolae Lupa

Department of Mathematics, Politehnica University of Timisoara,  
300006 Timisoara, Romania

---

### Deadline for manuscript submissions

closed (23 August 2024)



## Axioms

---

an Open Access Journal  
by MDPI

---

Impact Factor 1.9



[mdpi.com/si/146772](https://mdpi.com/si/146772)

*Axioms*

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

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





# Axioms

---

an Open Access Journal  
by MDPI

---

Impact Factor 1.9



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



## About the Journal

### Message from the Editor-in-Chief

*Axioms* is dedicated to the foundations (structure and axiomatic basis, in particular) of mathematical theories, not only from a crisp or strictly classical sense, but also from a fuzzy and generalized sense. This includes the more innovative current scientific trends, devoted to discover and solve new challenging problems. The prime goal of *Axioms* is to publish first-class, original research articles under an open access policy with minimal fees for the authors. We would be pleased to welcome you as one of our authors.

---

### Editor-in-Chief

Prof. Dr. Humberto Bustince

Department of Statistics, Computer Science and Mathematics, Public University of Navarra, 31006 Pamplona, Spain

---

### Author Benefits

#### Open Access

– free for readers, with article processing charges (APC) paid by authors or their institutions.

#### High visibility:

indexed within SCIE (Web of Science), dblp, and other databases.

#### Journal Rank:

JCR - Q1 (Mathematics, Applied)