



Differential Equations and Asymptotic Analysis: Recent Advances and Applications

Guest Editor:

Prof. Dr. Behzad Djafari-Rouhani

Department of Mathematical Sciences, University of Texas at El Paso, 500 W. University Avenue, El Paso, TX 79968, USA

Deadline for manuscript submissions:

closed (31 December 2023)

Message from the Guest Editor

Many real-world problems in science and engineering, including physical, biological, social phenomena, etc., can be mathematically formulated and rigorously solved by modeling them in terms of linear and nonlinear differential and partial differential equations. The aim of this Special Issue titled “Differential Equations and Asymptotic Analysis: Recent Advances and Applications” is to provide a forum for researchers working in this field to submit and publish their related recent works, both of a theoretical and an applied nature. A major emphasis is placed on the investigation of the asymptotic behavior of solutions and the existence of periodic solutions to these equations or systems of equations, as well as the approximation of the solutions. This is of course rather broad, and includes major parts of linear and nonlinear differential and partial differential equations, difference equations, ergodic theory, the calculus of variations, convex and nonconvex optimization, and much more.





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Humberto Bustince

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

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.

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)

Rapid Publication: manuscripts are peer-reviewed and a first decision is provided to authors approximately 21 days after submission; acceptance to publication is undertaken in 3.4 days (median values for papers published in this journal in the first half of 2024).

Contact Us

Axioms Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/axioms
axioms@mdpi.com
[X@Axioms_MDPI](https://twitter.com/Axioms_MDPI)