

Special Issue

Advances in Delay Differential Equations

Message from the Guest Editor

The present Special Issue aims to collect the most recent and notable advancements of the theory and application of delay differential equations (DDE, PDDE and FDDE). It is well known that, for the adequate mathematical modeling of the dynamics of many processes in various areas of science, it is crucial to take into account the influence of lags. That is why delay differential equations play an important role in modeling various physical, biological, ecological, and social processes and phenomena. In addition, in recent years, it has been of great interest to study the qualitative properties of solutions to equations with delay. The topics of the Special Issue include, but are not limited to, the construction of solutions, analytical, and numerical methods for; dynamical properties of; and applications of DDE to the mathematical modeling of various phenomena and processes in physics, biology, ecology, medicine, and the social sciences.

Guest Editor

Dr. Alexandra Kashchenko

Mathematical Department, P.G. Demidov Yaroslavl State University,
150003 Yaroslavl, Russia

Deadline for manuscript submissions

closed (1 May 2023)



Mathematics

an Open Access Journal
by MDPI

Impact Factor 2.2
CiteScore 4.6



mdpi.com/si/84063

Mathematics
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
mathematics@mdpi.com

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





Mathematics

an Open Access Journal
by MDPI

Impact Factor 2.2
CiteScore 4.6



[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 18.4 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).