

Special Issue

Applied and Computational Mathematics in Aerospace Engineering

Message from the Guest Editor

The utilization of applied and computational mathematics in aerospace engineering is an area that has received widespread interest in the last decades, mathematical modeling has been able to solve the prognostics and health management problems of key assets in aerospace engineering. Mathematical modeling has become a core technique for achieving a better understanding of health status, predicting future behavior, optimizing real-world activities and, even creating a digital twin of specific aerospace assets. We seek to publish papers on insightful mathematical approaches in aerospace engineering, specifically, mathematical modeling techniques for the prognostics and health management of aerospace assets. We also welcome any other kind of mathematical models and their application in digital twinning, the condition monitoring and fault diagnosis of aerospace systems, the prediction of the remaining useful life of aerospace assets, intelligent missions, and maintenance optimization.

Guest Editor

Dr. Teng Wang

School of Aeronautics, Northwestern Polytechnical University, Xi'an 710072, China

Deadline for manuscript submissions

31 May 2026



Mathematics

an Open Access Journal
by MDPI

Impact Factor 2.2
CiteScore 4.6



mdpi.com/si/247781

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 17.3 days after submission; acceptance to publication is undertaken in 2.8 days (median values for papers published in this journal in the second half of 2025).