

Special Issue

Mathematical Problems in Aerospace

Message from the Guest Editors

Mathematical problem in aerospace becomes a hot issue in recent years and has received more and more attention, and deeply affects the development of many fields, such as aerodynamics, astrodynamics, deep space exploration, space environment, manned space flight, etc. This special issue is planned to provide an overview of the latest major mathematical problems in aerospace and their applications in different fields. The purpose of this special issue is to provide a partial contribution to the mathematical theory, computational methods and other issues involved in aerospace. Potential topics include, but are not limited to: Rocket propulsion; Planetary atmosphere; Deep space exploration; Aerodynamics; Astrodynamics; Guidance, navigation, and control; Manned space flight; Plume of spacecraft and aircraft; Thermophysical of spacecraft and aircraft; Debris, dust, meteoroid, asteroid, comet, planet; Boundary of the Solar system; Space environment.

Guest Editors

Prof. Dr. Yu Jiang

Prof. Dr. Haijun Peng

Dr. Hongwei Yang

Deadline for manuscript submissions

closed (30 March 2023)



Mathematics

an Open Access Journal
by MDPI

Impact Factor 2.2
CiteScore 4.6



mdpi.com/si/115095

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).