



an Open Access Journal by MDPI

Mathematical Problems in Aerospace

Guest Editors:

Prof. Dr. Yu Jiang

State Key Laboratory of Astronautic Dynamics, Xi'an Satellite Control Center, Xi'an, China

Prof. Dr. Haijun Peng

Department of Engineering Mechanics, Dalian University of Technology, No.2 Linggong Road, Ganjingzi District, Dalian City 116024, China

Dr. Hongwei Yang

College of Astronautics, Nanjing Agricultural University, Nanjing, China

Deadline for manuscript submissions: closed (30 March 2023)



mdpi.com/si/115095

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;

ecialsue

Boundary of the Solar system;

Space environment.





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Francisco Chiclana

School of Computer Science and Informatics, De Montfort University, The Gateway, Leicester LE1 9BH, UK

Message from the Editor-in-Chief

The journal *Mathematics* publishes high-quality, refereed papers that treat both pure and applied mathematics. The iournal highlights articles devoted to the mathematical treatment of questions arising in physics, chemistry, biology, statistics, finance, computer science, engineering sociology. particularly those that and 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.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions. **High Visibility:** indexed within Scopus, SCIE (Web of Science), RePEc, and other databases. **Journal Rank:** JCR - Q1 (Mathematics) / CiteScore - Q1 (General Mathematics)

Contact Us

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