Special Issue

Artificial Intelligence in Aerospace Propulsion

Message from the Guest Editor

Aerospace propulsion is a key technology for space missions and exploration. Traditionally, the study of aerospace propulsion is based on experiments and numerical calculations; however, with the development of artificial intelligence (AI), AI technologies including machine learning, data-driven technologies, and so forth, have come to be applied in research on aerospace propulsion. This Special Issue in *Aerospace*, entitled "Artificial Intelligence in Aerospace Propulsion", features a collection of articles exploring the latest advancements in artificial intelligence technologies for aerospace propulsion. It covers a variety of topics, including AI technologies in applications such as advanced rocket engines, hybrid propulsion systems, electric thrusters, and plasma-based propulsion. The papers will discuss various aspects of methodology, modeling, design, analysis, and testing for propulsion systems, highlighting the challenges and opportunities associated with AI technologies in aerospace propulsion.

Guest Editor

Prof. Dr. Kan Xie

School of Aeronautics and Astronautics, University of Electronic Science and Technology of China, Chengdu 611731, China

Deadline for manuscript submissions

31 December 2025

Aerospace

an Open Access Journal by MDPI

Impact Factor 2.2
CiteScore 4.0

mdpi.com/si/207487

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

mdpi.com/journal/aerospace

Aerospace

an Open Access Journal by MDPI

Impact Factor 2.2
CiteScore 4.0

mdpi.com/journal/aerospace

MDPI

About the Journal

Message from the Editor-in-Chief

You are welcome to contribute a research article or a comprehensive review for consideration and publication in *Aerospace* (ISSN 2226-4310), an on-line, open access journal.
Aerospace adheres to rigorous peer-review as well as editorial processes and publishes high quality manuscripts that address both the fundamentals and applications of aeronautics and astronautics. Our goal is to enable rapid dissemination of high impact works to the scientific community.

Editor-in-Chief

Prof. Dr. Konstantinos Kontis
School of Engineering, University of Glasgow, James Watt Building South, University Avenue, Glasgow G12 8QQ, Scotland, UK

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), Inspec, Ei Compendex, and other databases.

Journal Rank:

JCR - Q2 (Engineering, Aerospace) / CiteScore - Q2 (Aerospace Engineering)