



Emerging Space Missions and Technologies

Guest Editors:

Dr. Shunan Wu

School of Aeronautics and
Astronautics, Sun Yat-Sen
University, Guangzhou 510006,
China

Dr. Jiafu Liu

School of Aeronautics and
Astronautics, Sun Yat-Sen
University, Guangzhou 510006,
China

Dr. Xiaobin Lian

Shanghai Institute of Satellite
Engineering, Shanghai, China

Deadline for manuscript
submissions:

closed (31 January 2023)

Message from the Guest Editors

In recent years, space science has developed rapidly. Novel space missions appear one after another. These innovative missions play an important role for humans in the exploration and understanding of the universe. New technology also emerges. Typical new technologies include the solar sail spacecraft, tethered systems, space robots, and space intelligent bionic systems. In the construction and development of lunar bases, space robots have a particularly important role. Solar sail spacecrafts that do not consume fuel will play an important role in the field of deep space exploration. A space tether system is proposed to design the space elevators.

The aim of this Special Issue is to provide a collection of papers pertaining to the dynamics and control of innovative space missions. Potential topics include, but are not limited to, the following:

- Space solar power station;
- In-space assembly and construction;
- Space robot;
- Space innovative structure/mechanism, such as tensegrity structure, intelligent bionic system;
- Space gravitational wave detection;
- Solar sail spacecraft;
- Space tethered system;
- Distributed space system;
- Novel concepts for space system.





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Konstantinos Kontis

School of Engineering, University of Glasgow, James Watt Building South, University Avenue, Glasgow G12 8QQ, Scotland, UK

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.

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*, and other databases.

Journal Rank: JCR - Q1 (*Engineering, Aerospace*) / CiteScore - Q2 (*Aerospace Engineering*)

Contact Us

Aerospace Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/aerospace
aerospace@mdpi.com
[X@Aerospace_MDPI](https://twitter.com/Aerospace_MDPI)