



Constellation Satellite Design and Application

Guest Editors:

Dr. Shengzhou Bai

Department of Aeronautical and
Aviation Engineering (AAE), Hong
Kong Polytechnic University,
Kowloon 999077, Hong Kong,
China

Dr. Yi Gu

School of Traffic and
Transportation Engineering,
Central South University,
Changsha 410075, China

Deadline for manuscript
submissions:

15 May 2025

Message from the Guest Editors

Satellite technology is becoming increasingly pervasive in all aspects of our lives, which cannot be separated from the design, maintenance, and application of satellite constellations. With the increasing number of proposed civil constellations, the design and application of satellite constellations with different functions have become a research hotspot.

Therefore, the main aim of this Special Issue is to seek high-quality submissions that highlight satellite constellation designs and intelligent applications and that propose original contributions to solve their associated key challenges. Research areas may include (but are not limited to) the following:

- Constellation design;
- Satellite technology;
- Satellite navigation;
- Constellation application;
- Design and operation of constellations and swarms;
- Design and analysis of space systems;
- Reconfiguring method of satellite constellations;
- Simulation and evaluation of mega-constellations;
- Satellite remote sensing;
- Satellite mission planning.





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Flavio Canavero

Department of Electronics and
Telecommunications,
Politecnico di Torino, 10129
Torino, Italy

Message from the Editor-in-Chief

Electronics is a multidisciplinary journal designed to appeal to a diverse audience of research scientists, practitioners, and developers in academia and industry. The journal is devoted to fast publication of latest technological breakthroughs, cutting-edge developments, and timely reviews of current and emerging technologies related to the broad field of electronics. Experimental and theoretical results are published as regular peer-reviewed articles or as articles within Special Issues guest-edited by leading experts in selected topics of interest.

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), CAPlus / SciFinder, Inspec, and other databases.

Journal Rank: JCR - Q2 (*Physics, Applied*) / CiteScore - Q2 (*Control and Systems Engineering*)

Contact Us

Electronics Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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

mdpi.com/journal/electronics
electronics@mdpi.com
[X@electronicsMDPI](https://x.com/electronicsMDPI)