

Special Issue

Constellation Satellite Design and Application

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.

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

closed (15 November 2025)



Electronics

an Open Access Journal
by MDPI

Impact Factor 2.6
CiteScore 6.1



mdpi.com/si/205881

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

[mdpi.com/journal/
electronics](https://mdpi.com/journal/electronics)





Electronics

an Open Access Journal
by MDPI

Impact Factor 2.6
CiteScore 6.1



[mdpi.com/journal/
electronics](https://mdpi.com/journal/electronics)



About the Journal

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 guestedited by leading experts in selected topics of interest.

Editor-in-Chief

Prof. Dr. Flavio Canavero

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

Author Benefits

High Visibility:

indexed within Scopus, SCIE (Web of Science), CAPlus / SciFinder, Inspec, Ei Compendex and other databases.

Journal Rank:

JCR - Q2 (Engineering, Electrical and Electronic) /
CiteScore - Q1 (Electrical and Electronic Engineering)

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 16.4 days after submission; acceptance to publication is undertaken in 2.6 days (median values for papers published in this journal in the second half of 2025).