

Announcement of a Special Issue
Advances in Space Research

Recent Advances in Satellite Constellations and Formation Flying

Papers are invited for a special topical issue of *Advances in Space Research* (ASR) entitled “*Recent Advances in Satellite Constellations and Formation Flying*”.

This special issue will explore the recent advances on Satellite Constellations and Formation Flying technologies. The emerging and growing interest on distributed space systems is a game changer in the space domain. The special issue will cover heterogeneous aspects linked to the abovementioned topic. A dedicated section will cover the innovative proposals for mission concepts, concerning the mission analysis and the developments of new analytical models to describe the motion in proximity scenarios. The innovative mission concepts will be comprehensive of hot topics like on-orbit servicing, launch systems and strategies for distributed assets. Beside the astrodynamics area, the special issue will entail cutting-edge applications with respect to Spacecraft Guidance, Navigation and Control both in terms of technologies and algorithms. Last, the application of Artificial Intelligence will find a dedicated section to present an up-to-date status of such emerging paradigm to increase the autonomy and the flexibility of different segments of a space mission.

Papers must be submitted electronically to <https://www.editorialmanager.com/AISR>. To ensure that all manuscripts are correctly identified for inclusion into the special issue, authors must select “**Special Issue: Advances in SC and FF**” when they reach the "Article Type" step in the submission process.

The general format for submission of papers can be found on the *ASR* Elsevier web site at <http://www.journals.elsevier.com/advances-in-space-research/>

Submitted papers must be written in English and should include full affiliation postal addresses for all authors. full-length papers will be considered for publication, subject to peer review by a minimum of two reviewers. There are no page limits although the length of the paper should be appropriate for the material being presented. While the deadline for submissions is **15 November 2022**, papers will be published electronically with a doi number as soon as they are accepted. The printed issue will be assembled within a reasonable time with late papers being printed in regular issues of *ASR*. All articles will be typeset at no cost to the author; there is a charge for printing color figures; there is no charge for color figures on the electronic version.

Prof. Michèle Lavagna (michelle.lavagna@polimi.it) is the Guest Editor for this special issue. Questions can be directed to Prof. Lavagna or to the Co-Editor for Special Issues, Dr. Peggy Ann Shea (sssrc@msn.com).