



NEW PROGRESS IN ASTRODYNAMICS APPLICATIONS

GUEST EDITOR

Prof. Yu Jiang, State Key Laboratory of Astronautic Dynamics, China, jiangyu_xian_china@163.com

DESCRIPTION

Applications of astrodynamics has lately attracted increasing attention because of the unprecedented growth of launch vehicles, spacecraft, debris fragments, and deep space exploration missions. This special issue aims to collect recent research updates on astrodynamics applications.

Topics for this Special Issue include, but are not limited to:

1. Spacecraft measurement and orbital dynamics

- ▶ Basic theory of orbital dynamics
- ▶ Precision measurement principle and data modeling technology
- ▶ Precise orbit perturbation modeling technology
- ▶ The theory of orbital motion of interstellar probes

2. Optimal control of spacecraft orbit and attitude

- ▶ Aerospace dynamics system identification and estimation theory
- ▶ Track optimization design and dynamic simulation technology
- ▶ Spacecraft Navigation and Control Technology

3. Space flight environment monitoring and early warning of spacecraft

- ▶ Aerospace flight environment modeling technology
- ▶ Space target identification technology
- ▶ Space environment simulation technology
- ▶ Spacecraft collision warning and avoidance technology

4. Spacecraft mission planning and resource scheduling

- ▶ Research on new measurement technology
- ▶ Flight Mission Design Technology
- ▶ Resource unified scheduling technology

HOW TO SUBMIT

Before submission authors should carefully read the [Instructions for Authors](#). All submissions to the Special Issue must be made electronically via the Editorial Manager submission and tracking review system: <https://www.editorialmanager.com/astro>.

All manuscripts will undergo the standard peer-review process (single-blind, at least two independent reviewers). When entering your submission via the online submission system please choose "Special Issue: New Progress in Astrodynamics Applications". Submission of a manuscript implies that the work described has not been published before and is not under consideration for publication anywhere else.

The deadline for submissions is **June 30th, 2022**, but individual papers will be reviewed and published online on an ongoing basis.

Your benefits due to contribution to the Topical Issue:

- ▶ indexation in Web of Science, SCOPUS, and many other services,
- ▶ convenient, web-based paper submission and tracking system – Editorial Manager,
- ▶ quick online publication upon completing the publishing process (continuous publication model),
- ▶ better visibility due to Open Access,
- ▶ long-term preservation of the content (articles archived in Portico),
- ▶ extensive post-publication promotion for selected papers.

In case of any further questions please contact the Managing Editor:

katarzyna.gajewska@degruyter.com.