

Special Issue

Methods of Precise Orbit Determination and Autonomous Navigation for Interplanetary Space Probes

Message from the Guest Editors

In this Special Issue, we invite research papers that deal with technologies and methods for highly accurate navigation of spacecraft and rovers. Techniques for the determination of interplanetary probe trajectory that are based on novel measurement types are encouraged. Potential paper topics include but are not limited to:

- Use of cutting-edge technologies for deep space navigation, including radio and laser systems;
- Use of onboard cameras and altimeters to aid in the determination of the spacecraft trajectory and central body's ephemeris;
- Development of novel techniques of precise orbit determination based on the combination of multiple datasets;
- Development of methods and instrumentations to measure non-gravitational forces and improve thereby the spacecraft orbit reconstruction and propagation;
- Modeling of gravity field, topography and shape for geodetic investigations and accurate trajectory reconstruction;
- Development of approaches that enable highly accurate navigation on planetary surfaces, including visual odometry.

Guest Editors

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Deadline for manuscript submissions

closed (31 January 2023)



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About the Journal

Message from the Editor-in-Chief

Remote Sensing is now a prominent international journal of repute in the world of remote sensing and spatial sciences, as a pioneer and pathfinder in open access format. It has highly accomplished global remote sensing scientists on the editorial board and a dedicated team of associate editors. The journal emphasizes quality and novelty and has a rigorous peer-review process. It is now one of the top remote sensing journals with a significant Impact Factor, and a goal to become the best journal in remote sensing in the coming years. I strongly recommend *Remote Sensing* for your best research publications for a fast dissemination of your research.

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