



Autonomous Space Navigation

Guest Editors:

Dr. Vincenzo Capuano

Dr. Jérôme Leclère

Dr. Javier Tecedor

Dr. Roberto Opromolla

Deadline for manuscript
submissions:

closed (31 March 2023)

Message from the Guest Editors

Dear Colleagues,

This Special Issue aims to portray an overview of recent research trends on this matter. It encourages original research contributions and state-of-the-art reviews from academia and industry that focus on innovative technologies, methods and algorithms for autonomous navigation of spacecraft also when orbiting in proximity of other space objects. Potential topics include but are not limited to:

- Technologies, methods and algorithms for autonomous absolute spacecraft navigation, based on the use of GNSS, IMU, star trackers, and other sensors;
- Spacecraft relative navigation and pose determination using GNSS, RF ranging and/or electro optical sensors;
- Autonomous navigation and situational awareness in deep space exploration scenarios (e.g., hazard detection and precise landing);
- Design, integration, and calibration of innovative multi-sensor-based architectures for spacecraft navigation;
- Artificial intelligence and machine learning for autonomous spacecraft navigation.





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Editor-in-Chief

Dr. Prasad S. Thenkabail

Senior Scientist (ST), U. S.
Geological Survey (USGS), USGS
Western Geographic Science
Center (WGSC), 2255, N. Gemini
Dr., Flagstaff, AZ 86001, USA

Message from the Editor-in-Chief

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Contact Us

Remote Sensing Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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