Autonomous Space Navigation

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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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Special Issue

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Message from the Editor-in-Chief

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