



## GNC for the Moon, Mars, and Beyond

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**closed (29 February 2024)**

### Message from the Guest Editor

Dear Colleagues,

We are approaching a new era in space exploration and exploitation. The human return to the Moon foreseen before this decade is out, and the renewed interest of public and (for the first time) private players towards the exploration of Mars are opening a potentially infinite variety of exciting missions. Moreover, asteroids' deflection and in-situ resources exploitation is no longer a technological chimera, but a concrete scientific possibility at our hand.

As for any space mission, the corresponding Guidance, Navigation and Control subsystems are called once more to be the workhorse that can make the vision behind these concepts a technological reality, and with every vision comes a challenge, that many researchers all around the world are eager to face.

This special issue will specifically focus on

- Trajectory Optimization
- Computational Guidance methods
- Novel Control Concepts
- High-Accuracy Relative and Absolute Navigation Algorithms
- Advanced GNC system design concepts
- Asteroid Mapping and Descent Robust Methodologies
- Interplanetary Low-thrust Guidance and Control Methods.





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## Message from the Editor-in-Chief

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