

Special Issue

Spacecraft Trajectory Optimization

Message from the Guest Editor

Trajectory optimization is a fundamental step in the definition of a space mission. In the recent past, we have seen the introduction and diffusion of new technologies, such as electric propulsion and micro-satellites/CubeSats, and missions to many different targets, from Mars and giant planets and their moons, to near-Earth asteroids, to Lagrangian points. The next steps for the colonization of space consider a space/lunar gateway that must be connected with LEO and the Moon surface and could see the departure of interplanetary missions. This continuous evolution creates new challenges that need to be faced by the space trajectory optimization community. This Special Issue aims to provide an overview of recent advances in space trajectory optimization methods and/or their application to novel mission concepts. Authors are invited to submit full research articles and review manuscripts addressing (but not limited to) the following topics: Trajectories in proximity of the Earth (LEO, MEO); Trajectories to/in GEO; Missions to/from Lagrangian points; Interplanetary missions; Asteroid missions; Debris removal; Satellite servicing; Formation flying.

Guest Editor

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Deadline for manuscript submissions

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Aerospace adheres to rigorous peer-review as well as editorial processes and publishes high quality manuscripts that address both the fundamentals and applications of aeronautics and astronautics. Our goal is to enable rapid dissemination of high impact works to the scientific community.

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