Special Issue

Spacecraft Trajectory Design

Message from the Guest Editors

Spacecraft trajectory design represents a pivotal aspect of aerospace engineering, focusing on the development of optimal orbital trajectories that satisfy the multifaceted requirements and constraints of space missions. As aerospace technology advances, the complexity of trajectory design has escalated, carving out the need for multidisciplinary approaches that integrate celestial mechanics, dynamics and control, optimization algorithms, and propulsion technology. This research must address not only the feasibility of orbital trajectories but also critical factors such as fuel efficiency, mission duration, orbit accuracy, and the autonomous navigation capabilities of spacecraft.

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