Special Issue

Spacecraft Dynamics and Control

Message from the Guest Editor

The dynamics and control for the orbit and attitude of spacecraft are fundamental to space missions both around the Earth and in deep space to and beyond the Moon. A spacecraft is generally known as a kind of man-made object that flies above the atmosphere of the Earth and far to the edge of the solar system. Although the dynamics and control of spacecraft is a traditional topic, space missions continue to be innovated, and new technologies are continuously being combined. Typical new missions include the satellite internet constellation Starlink, removal of low-Earth orbital debris, observation of gravitational waves, crewed missions to the Moon and Mars, asteroid mining and sampling return, Jovian system multiple encounter exploration, and multiple-spacecraft exploration. New technologies include novel solar sail propulsion, electric propulsion, low-energy transfer in multi-body gravitational field, novel resonant gravity assists and artificial intelligence, all of which significantly challenge the dynamics and control.

Guest Editor

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