

Special Issue

Spacecraft Vibration Suppression and Measurement Sensor Technology

Message from the Guest Editors

With the development of space technology, micro-vibrations have become a restriction for improving the imaging quality and pointing accuracy of in-orbit satellites. In order to weaken or eliminate the impact of micro-vibrations, effective micro-vibration suppression methods must be adopted. Due to the very small vibration magnitude of space vehicles, broadband and low-noise measurement sensor technologies need to be developed. Furthermore, the verification of micro-vibration suppression on the ground is a challenge due to the influence of gravity. Topics of interest for this Special Issue include, but are not limited to, the following:

- Micro-vibration suppression to space optical payloads;
- Micro-vibration suppression to solar wing;
- Isolation of CMG;
- Micro-vibration suppression to space antenna;
- Micro-vibration measurement sensor technology;
- Ground testing technology;
- Design and broadband control of fast-reflection mirrors (FSM);
- Image stabilization technology;
- High-precision pointing;
- Advanced sensing technology.

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