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Special Session on

"Motion Control Technologies for Future Scientific Satellite and Spacecraft Missions"

Organized by

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Call for Papers

Abstract: (100 words)

Motion control is one of matured technologies and the key tool necessary for modern mechatronics equipment. However, its application to space exploration has not been fully addressed yet. Many space projects still depend on classic methodologies possessing considerable record. Meanwhile, recent scientific satellite and spacecraft missions have required strict specifications. This special session provides a remarkable opportunity for the academic, industrial, and space agencies' communities to address new challenges and share solutions on the applications of advanced motion control technologies to space exploration. Moreover, many related topics are also discussed.

Topics of interest include, but are not limited to:

- Mechatronics in Space Environment,
- Dynamics and Control of Satellite and Spacecraft,
- Modeling and Simulation of Spacecraft Dynamics, Systems, and Environments,
- Mechanism and Electrical Components for Satellite and Spacecraft Missions,
- Model-Based Design and X-in-the-Loop Simulation,
- Vibration Analysis and Control of Flexible Objects

IES Technical Committee Sponsoring the Special Session:

Technical Committee on Motion Control