

Special Issue

Advanced Method and Technology for Miniaturized Space Application

Message from the Guest Editor

Small satellites have enabled a New Space market for academics and entrepreneurs to participate in satellite system development. The miniaturized subsystem provides the opportunity for industry to deploy satellite constellation at a much lower cost. These miniaturized subsystems include software-defined radio, propulsion systems, satellite bus systems, star sensors, reaction wheels, etc. Some of these miniaturized subsystems' size and performance are easily scalable, both up or down, based on the mission requirements, also known as a scalable system. This Special Issue focuses on but is not limited to the development of miniaturized space systems, including high-efficiency power systems, new hardware topology, advance satellite payload, and scalable and modular bus systems. In addition, contributions on the space system with in-orbit experiments and new ideas for space situation awareness arising from large satellite constellation in New Space applications are of interest. Reviews on space miniaturization technology, history, and their practicability are also welcome.

Guest Editor

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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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