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Advanced Method and Technology for Miniaturized Space Application

Guest Editor:

Dr. Shu Ting Goh
Department of Electrical & Computer Engineering, National University of Singapore, Singapore City 119077, Singapore

Deadline for manuscript submissions:
closed (23 September 2023)

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.

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Editor-in-Chief

Prof. Dr. Konstantinos Kontis
School of Engineering, University of Glasgow, James Watt Building South, University Avenue, Glasgow G12 8QQ, Scotland, UK

Message from the Editor-in-Chief

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Contact Us

Aerospace Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/aerospace
aerospace@mdpi.com
𝕏@Aerospace_MDPI