

Special Issue

On-Board Systems Design for Aerospace Vehicles

Message from the Guest Editors

This Issue aims to highlight the latest research advancements in the field of on-board systems design for both aeronautics and space vehicles, with a focus on innovative concepts and technologies and environmentally sustainable architectures, ensuring an enhanced product in terms of both performance and economic impact. This Special Issue calls for research, articles, and manuscripts addressing the following topics (although others will be considered):

- High-level design of on-board systems, including functional architecture definition and concept of operation;
- Model-based system engineering practices for aerospace system design;
- Digital twin concepts for aerospace system analysis and design;
- Reliability and safety assessment of on-board systems;
- System architecture optimization;
- More-electric and all-electric on-board system architectures;
- Hybrid-electric systems to support green propulsion plants;
- FDIR systems and strategies;
- Onboard autonomy;
- Development of ground support equipment;
- Innovative guidance, navigation, and control systems for satellites;
- Communication system: intersatellite links and multi-beams communication.

Guest Editors

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Dr. Marco Fioriti

Deadline for manuscript submissions

closed (31 October 2023)



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About the Journal

Message from the Editor-in-Chief

You are welcome to contribute a research article or a comprehensive review for consideration and publication in *Aerospace* (ISSN 2226-4310), an on-line, open access journal.

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.

Editor-in-Chief

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