



Control and Optimization Problems in Aerospace Engineering

Guest Editors:

Prof. Dr. Stefano Valvano

Faculty of Engineering and
Architecture, Kore University of
Enna, 94100 Enna, Italy

Dr. Andrea Ferrero

Department of Mechanical and
Aerospace Engineering,
Politecnico di Torino, 10129
Torino, Italy

Deadline for manuscript
submissions:

closed (1 December 2020)

Message from the Guest Editors

This Special Issue focuses on topics related to the use of mathematical control techniques to solve some typical problems of the aerospace industry. To set a thematic focus beyond the areas of application, we are specifically looking for contributions on:

- Structural mechanics control problems
- Propulsion systems control problems
- Flight mechanics control problems
- Space flight control problems
- Vibration suppression
- Passive control
- Active dynamic control
- Smart materials for control applications
- Thermal efficiency
- Acoustic transmission optimization
- Jet engine control
- Transmission control
- Combustion efficiency
- Aeroelastic coupling problem
- Re-entry orbit problem
- Transfer orbit problem

Moreover, the focal topics listed above are not meant to exclude articles from additional areas. Similarly, we do not intend to limit the Special Issue's focus to control problems only but aim to also include studies on optimization relevant applications in the aerospace sector.





an Open Access Journal by MDPI

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

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.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed within [Scopus](#), [SCIE \(Web of Science\)](#), [Inspec](#), [Ei Compendex](#), and [other databases](#).

Journal Rank: JCR - Q2 (Engineering, Aerospace) / CiteScore - Q2 (Aerospace Engineering)

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](#)