

Special Issue

Life Cycle Modeling of Aircraft Propulsion Systems

Message from the Guest Editor

Life cycle modeling of aircraft propulsion systems is a key ability in the fields of aircraft propulsion system design, engine selection, fleet management, flight mission and maintenance planning, development of engine repair technologies, as well as spare part logistics. As one manifestation of whole system modeling, it involves abilities such as engine performance and controls, performance and structural deterioration modeling, modeling the effect of ingested fluid and solid particles, as well as modeling the aging of engine structures. A key aspect is the complex interaction of the deterioration mechanisms that leads to specific patterns of propulsion system deterioration. Consequently, it requires scientific methods with a wide range of spatial and time resolution.

Guest Editor

Prof. Dr. Stephan Staudacher

Institute for Aircraft Propulsion Systems, University of Stuttgart,
Pfaffenwaldring 6, 70569 Stuttgart, Germany

Deadline for manuscript submissions

closed (31 May 2021)



Aerospace

an Open Access Journal
by MDPI

Impact Factor 2.2
CiteScore 4.0



mdpi.com/si/62297

Aerospace
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
aerospace@mdpi.com

[mdpi.com/journal/
aerospace](https://mdpi.com/journal/aerospace)





Aerospace

an Open Access Journal
by MDPI

Impact Factor 2.2
CiteScore 4.0



[mdpi.com/journal/
aerospace](https://mdpi.com/journal/aerospace)



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

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

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)