



Aerodynamic Design with Machine Learning

Guest Editors:

Dr. Jichao Li

Prof. Dr. Joseph Morlier

Dr. Rhea Liem

Dr. Pramudita Satria Palar

Deadline for manuscript
submissions:

closed (22 December 2023)

Message from the Guest Editors

Dear Colleagues,

Machine learning has promoted advances in aerodynamic design optimization in multiple aspects such as aerodynamic modeling, shape parameterization, optimization architectures, etc. In order to provide our community with a briefing on the state-of-the-art and future directions, we have organized this Special Issue to collect relevant studies applied to the design optimization of airfoils, wings, aircraft, turbines, vehicles, etc.

The topics include but are not limited to data-driven surrogate modeling, generalizable off-design constraints, aerodynamic shape parameterization, reinforcement learning, transform learning, multi-fidelity optimization, generative design, data-driven interactive design, etc. We look forward to your high-qualified contributions, especially those with demonstrated benefits compared to conventional methods.

Dr. Jichao Li

Prof. Dr. Joseph Morlier

Dr. Rhea Liem

Dr. Pramudita Satria Palar

Guest Editors





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, and other databases.

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

Contact Us

Aerospace Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

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

mdpi.com/journal/aerospace
aerospace@mdpi.com
[X@Aerospace_MDPI](#)