# Special Issue Optimal Design of Aircraft

#### Message from the Guest Editor

Faced with increasingly severe climate and environmental requirements and carbon emission pressure, the concept and pursuit of green aviation have increasingly become the focus of aircraft designers, manufacturers, and operators. Aircraft design is an optimization process. How to find a breakthrough in traditional disciplines such as aircraft overall design, aerodynamic design, structural design, flight control design, electronic and electrical system design, and how to achieve high efficiency, energy conservation, environmental protection, and other requirements for optimization and tradeoffs has become increasingly urgent. Furthermore, unmanned and intelligent, as well as electric and hydrogen energy, provide valuable solutions for the commercialization of green aviation.

- aircraft overall optimization design
- aerodynamic optimization design of aircraft
- aircraft structure optimization design
- optimal design of flight control system
- aircraft noise suppression and optimization design
- optimization design of aircraft electronic system
- optimization design of aircraft electrical system

#### **Guest Editor**

Prof. Dr. Yongjie Zhang School of Aeronautics, Northwestern Polytechnical University, Xi'an 710072, China

#### Deadline for manuscript submissions

closed (15 January 2024)



an Open Access Journal by MDPI

Impact Factor 2.5 CiteScore 4.7



mdpi.com/si/151549

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

mdpi.com/journal/

machines





an Open Access Journal by MDPI

Impact Factor 2.5 CiteScore 4.7



machines



# About the Journal

### Message from the Editor-in-Chief

*Machines* is an international, peer reviewed journal on machinery and engineering. It publishes research articles, reviews and communications.

Our aim is to encourage scientists to publish their experimental and theoretical results in as much detail as possible. There is no restriction on the length of the papers. Full experimental and/or methodical details must be provided.

There are, in addition, unique features of this journal: Manuscripts regarding research proposals and research ideas will be particularly welcomed; Electronic files or software regarding the full details of the calculation and experimental procedure - if unable to be published in a normal way can be deposited as supplementary material.

#### Editor-in-Chief

Prof. Dr. Antonio J. Marques Cardoso CISE - Electromechatronic Systems Research Centre, University of Beira Interior, Calçada Fonte do Lameiro, P-6201-001 Covilhã, Portugal

## Author Benefits

#### High Visibility:

indexed within Scopus, SCIE (Web of Science), Inspec, and other databases.

#### Journal Rank:

JCR - Q2 (Engineering, Mechanical) / CiteScore - Q1 (Control and Optimization)

#### **Rapid Publication:**

manuscripts are peer-reviewed and a first decision is provided to authors approximately 16.9 days after submission; acceptance to publication is undertaken in 2.4 days (median values for papers published in this journal in the first half of 2025).