



## Adjoint Method for Aerodynamic Design and Other Applications in CFD

Guest Editors:

**Dr. Carlos Lozano**

Computational Aerodynamics,  
National Institute of Aerospace  
Technology (INTA), 28850  
Torrejon de Ardoz, Madrid, Spain

**Dr. Jorge Ponsin**

Computational Aerodynamics,  
National Institute of Aerospace  
Technology (INTA), 28850  
Torrejon de Ardoz, Madrid, Spain

Deadline for manuscript  
submissions:

**closed (31 July 2023)**

### Message from the Guest Editors

Dear Colleagues,

This Special Issue aims to cover ongoing advances in the development and application of adjoint methods in fluid dynamics. In addition to original research articles, review papers, letters or communications, technical reports, and extended versions of conference papers are likewise accepted.

The focus of this Special Issue is mainly, but not exclusively, on adjoint-based shape design, including properties of adjoint solutions, continuous, discrete and unsteady adjoint implementations, and multidisciplinary adjoint-based optimization of aircrafts, ships, and automobiles.

In addition to these topics, this Issue is open to any contribution concerning the application of adjoint methods to other computational fluid dynamics problems such as error estimation and goal-oriented mesh adaptation, stability analysis, etc.

We hope that this Special Issue can bring together all those working in adjoint methods within the CFD and fluid mechanics community.

Dr. Carlos Lozano

Dr. Jorge Ponsin

*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, Grosspeteranlage 5  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/aerospace](http://mdpi.com/journal/aerospace)  
[aerospace@mdpi.com](mailto:aerospace@mdpi.com)  
[X@Aerospace\\_MDPI](#)