

Special Issue

Advances in Applied Sciences of Aeronautics and Near Space

Message from the Guest Editors

In recent years, much progress has been achieved in aeronautics and near space. Different kinds of aircrafts, such as unmanned aerial vehicles (UAVs), Drones, civilian aircraft, military aeroplanes, near-space airships, high altitude balloons, solar-powered unmanned aerial vehicles, missiles, and hypersonic vehicles have extensive application potentiality and superiority in civilian use and military mission. This Special Issue will provide an overview of the most recent advances in applied sciences of aeronautics and near space. This Special Issue aims to provide selected contributions on advances in the understanding of aeronautics and near space science, vehicle design theory and applications. Potential topics include, but are not limited to:

- General design method of flight vehicles
- Multidisciplinary optimization approach
- Aerodynamics and computational fluid dynamics (CFD) simulation
- Development of surrogate models
- Advanced energy and Propulsion system
- Flight control methods
- Applications of machine learning
- Atmospheric environment

Guest Editors

Dr. Jiwei Tang
Dr. Peng Jin
Dr. Jianhua Xu

Deadline for manuscript submissions

closed (10 June 2023)



Applied Sciences

an Open Access Journal
by MDPI

Impact Factor 2.5
CiteScore 5.5



mdpi.com/si/150685

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

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





Applied Sciences

an Open Access Journal
by MDPI

Impact Factor 2.5
CiteScore 5.5



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



About the Journal

Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal *Applied Sciences* has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo
Dipartimento di Fisica, Politecnico di Milano, Piazza L. da Vinci 32,
20133 Milano, Italy

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), Ei Compendex, Inspec, Embase, CAPIus / SciFinder, and other databases.

Journal Rank:

JCR - Q2 (Engineering, Multidisciplinary) / CiteScore - Q1 (General Engineering)