Special Issue

Recent Advances in Aerodynamics and Acoustics

Message from the Guest Editors

In recent years, there have been significant advances in our ability to understand and predict the aerodynamics and acoustics of aircraft and related systems. However, it remains challenging to design new aircraft that meet the current and emerging ambitions in terms of efficiency, emission, and noise targets. State-of-the-art computational and experimental methods make it possible to discover new knowledge of the underlying physics and enable engineers to develop improved aerodynamic and acoustic technologies for aircraft. The recent surge in global demand is motivating researchers to create more efficient aerodynamics in multiple areas such as aerodynamic design—analysis, methodologies, optimization, uncertainty, simulation, and testing; configuration aerodynamics; subsonic, transonic, supersonic, and hypersonic flight regimes; rotorcraft, propeller, and wind turbines; and flow control applications. Similarly, active areas of research in acoustics are noise generation, propagation, and control; the effects of acoustics on fluid flow and structures; and theoretical, computational, and experimental methods for acoustics.

Guest Editors

Dr. Kursat Kara

Kara Aerodynamics Research Laboratory, School of Mechanical and Aerospace Engineering, Oklahoma State University, ES 330, Stillwater, OK 74078-5016, USA

Prof. Dr. James Mathew Manimala

Mechanical and Aerospace Engineering, Oklahoma State University, 319, General Academic Building, Stillwater, OK 74078, USA

Deadline for manuscript submissions

closed (31 December 2021)

Fluids

an Open Access Journal by MDPI

Impact Factor 1.8
CiteScore 4.0

mdpi.com/si/88637

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

mdpi.com/journal/fluids

Fluids

an Open Access Journal by MDPI

Impact Factor 1.8
CiteScore 4.0

mdpi.com/journal/fluids

MDPI

About the Journal

Message from the Editor-in-Chief

Fluids (ISSN 2311-5521) is an international journal on all aspects of fluids in open access format: research articles, reviews and other contents are released on the internet immediately after acceptance. You are invited to contribute a research article or a comprehensive review for consideration and publication in *Fluids*. The scientific community and the general public have unlimited free access to the content as soon as it is published. Please consider *Fluids* as an exceptional, exciting enterprise ready to reward your trust, attention, and active participation.

Editor-in-Chief

Prof. Dr. D. Andrew S. Rees
Department of Mechanical Engineering, University of Bath, Bath BA2 7AY, UK

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, ESCI (Web of Science), Inspec, CAPlus / SciFinder, and other databases.

Journal Rank:

CiteScore - Q2 (Mechanical Engineering)