



an Open Access Journal by MDPI

Aerodynamics Applied to Turbomachinery

Guest Editors:

Dr. Zeeshan A. Rana

Centre for Computational Engineering Sciences, School of Aerospace Transport and Manufacturing, Cranfield University, Cranfield MK43 0AL, UK

Dr. Soheil Jafari

Centre for Propulsion Engineering, School of Aerospace Transport and Manufacturing, Cranfield University, Cranfield MK43 0AL, UK

Deadline for manuscript submissions: closed (15 April 2023)



mdpi.com/si/118613

Message from the Guest Editors

This Special Issue will be devoted to the state-of-the-art research on the aerodynamics of turbomachines, as well as their components and sub-systems. We seek submissions with a broader perspective of external or internal flows that can include theoretical, experimental or computational investigations, as well as advanced thinking on the theme.

Keywords

- turbomachinery
- aerodynamics
- gas turbines
- jet engines
- compressors
- turbochargers
- fuel injection
- gas turbine combustion
- turbines
- turbine blade cooling
- fan aerodynamics
- theory of gas turbines
- experimental investigation
- computational fluid dynamics
- computational structural dynamics

Decialsue

- fluid-structure interactions
- unsteady flows
- turbulence and turbulent flows
- propulsion
- flow control
- thermal mana
- wind tunnel



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

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

Author Benefits

Open Access: free for readers ewite initial initialization initial initial initial ini

Journal Rank: JCR - Q2 (*Engineering, Mechanical*)

Contact Us

Machines Editorial Office MDPI, St. Alban-Anlage 66 4052 Basel, Switzerland Tel: +41 61 683 77 34 www.mdpi.com mdpi.com/journal/machines machines@mdpi.com X@Machines_MDPI