Special Issue

Propulsion/Airframe Integration

Message from the Guest Editor

Advanced aircraft concepts are increasingly reliant on closer coupling of propulsion systems with airframe aerodynamics, or propulsion/airframe integration (PAI), for optimal performance. For instance, several advanced concepts employ fuselage boundary layer ingestion by turbofan engines to achieve a reduction in mission fuel burn. These benefits occur at the system level, and oftentimes traditional measures of sub-system efficiency, such as thrust-to-weight ratio, lift-to-drag ratio, and propulsion efficiency, are obscured by the integration since sub-system and system characteristics are inseparable. In this issue, manuscripts are sought that report new research on:

- optimized airframe concepts with highly integrated propulsion systems
- systems performance analyses for integrated propulsion systems
- turbomachinery design, aerodynamic response, and aeromechanics for non-uniform inlet flow
- aerodynamics of integrated inlets and exhausts
- aeroacoustics of integrated propulsion systems

Guest Editor

Assoc. Prof. K. Todd Lowe
Kevin T. Crofton Department of Aerospace and Ocean Engineering, Virginia Tech, Blacksburg, VA 24061, USA

Deadline for manuscript submissions

closed (10 December 2017)

Aerospace

an Open Access Journal by MDPI

Impact Factor 2.2
CiteScore 4.0

mdpi.com/si/8901

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

mdpi.com/journal/aerospace

Aerospace

an Open Access Journal by MDPI

Impact Factor 2.2
CiteScore 4.0

mdpi.com/journal/aerospace

About the Journal

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.

Editor-in-Chief

Prof. Dr. Konstantinos Kontis
School of Engineering, University of Glasgow, James Watt Building South, University Avenue, Glasgow G12 8QQ, UK

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, Ei Compendex, and other databases.

Journal Rank:

JCR - Q2 (Engineering, Aerospace) / CiteScore - Q2 (Aerospace Engineering)

MDPI