



Propulsion/Airframe Integration

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)

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





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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

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Aerospace Editorial Office
MDPI, St. Alban-Anlage 66
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