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Propulsion/Airframe Integration

Guest Editor:

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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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Message from the Editor-in-Chief

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