Special Issue

Boundary Layer Ingesting Turbo-Electric Distributed Propulsion Systems—Innovations and Challenges

Message from the Guest Editors

To achieve the next level of performance improvements, the aerospace industry is shifting its focus towards highly integrated propulsion systems. This will necessarily entail a significant change in aerodynamic design and system integration aspects of the technology. With an impetus on “clean green technology”, great strides are today being made in the incorporation and adaptation of more distributed hybrid electric propulsion concepts with additional benefits, through integrated boundary layer ingesting systems. Given the highly integrated nature of these systems, a significant number of new design innovations and integration concepts have evolved in the recent past. Through the introduction of this Special Issue, we are hoping to bring to the fore some of the latest propulsion concepts and system integration aspects, while touching upon the key innovations required and the challenges that we may face in realizing the technology and its potential. The breadth of coverage will range from aerodynamics of integrated propulsion systems to the design of turbo-electric/hybrid system architecture.

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