Special Issue

Vortex Flow Phenomena and Physics of Aerospace Engineering Applications

Message from the Guest Editors

Understanding flow fields and their impact upon the aerodynamics of aerial vehicles often demands a good appreciation of the vortex dynamics and flow physics associated with the key flow phenomena that enable and enhance the functionalities of said aerial vehicles. Therefore, this Special Issue includes but is not limited to conventional fixed-wing or rotary-wing aircraft, unmanned aerial vehicles, launch vehicles, bio-inspired solutions and projectile flights, just to mention a few applications. While parametric pursuits are often undertaken numerically or experimentally to improve and optimize their designs, the role played by exploiting and optimizing the underlying fundamental flow mechanisms cannot be underestimated as well. In fact, the latter is a more of an upstream approach that could arguably lead to more efficient and effective solutions and/or concepts as it tackles at the heart of the problem.
Dr. Desmond H. Lim

Guest Editors

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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.

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