

Special Issue

Vortex Flow Phenomena and Physics of Aerospace Engineering Applications (2nd Edition)

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- or rotary-wing aircraft, unmanned aerial vehicles, launch vehicles, bio-inspired solutions, and projectile flights, among other applications. While parametric pursuits are often undertaken numerically or experimentally to improve and optimize their design, the role played by exploiting and optimizing the underlying fundamental flow mechanisms cannot be underestimated. In fact, the latter is more of an upstream approach that could arguably lead to more efficient and effective solutions and/or concepts by tackling the heart of the problem.

Guest Editors

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