Special Issue

Aeroelasticity

Message from the Guest Editor

The impact of aeroelasticity on the design and operation of aerospace vehicles cannot be underestimated. Aeroelastic phenomena are encountered at various spatial and temporal scales, from low Reynolds number vortical flows around membrane and flapping wings to high Reynolds number, transonic flows around complete aircraft. If discovered in the late phases of the aircraft development process, aeroelastic issues may degrade the overall aircraft performance and even cause catastrophic failures. Traditionally, aerospace vehicles are designed to avoid the occurrence of aeroelastic phenomena within the flight envelope. The methods that aid in bringing a conceptual design into fruition are primarily analytical, semi-empirical and based on linear methods. This Special Issue on Aeroelasticity aims at collecting current trends in the field, which may include the modelling and experimentation of nonlinear aeroelastic phenomena and testbeds, the development of methods and tools to support the design of next generation aerial vehicles, the control of aeroelastic phenomena for loads alleviation purposes and for energy harvesting.

Guest Editor

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Deadline for manuscript submissions

closed (31 December 2018)

Aerospace

an Open Access Journal by MDPI

Impact Factor 2.2
CiteScore 4.0

mdpi.com/si/14955

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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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