Special Issue

Aeroelasticity: Recent Advances and Challenges

Message from the Guest Editors

Aeroelasticity is the branch of physics studying the interactions between the inertial, elastic, and aerodynamic forces when an elastic structure is subjected to air flow. It has been widely observed in the aerospace industry, such as in flutter, wing divergence, or buffet. Recently, interesting phenomena have been observed as new technologies are introduced, including aerodynamic and/or aerodynamic nonlinearity, thermal effects, control architecture, etc. This Special Issue is targeting the current fundamental research efforts related to aeroelasticity over a broad range of topics in aerospace applications. Manuscripts are expected to describe computational, experimental, and/or theoretical research related to aeroelasticity with a focus on fundamental studies. Publications related to a specific application are relevant to this Special Issue's scope as well. Submissions may also include ongoing projects and investigations addressing other relevant fields, such as wind engineering, fluid–structure interactions, structural dynamics, or MDO of an aircraft structure.

Guest Editors

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Deadline for manuscript submissions

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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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