Special Issue

Advances in Aerostructural Analysis, Design, and Optimization

Message from the Guest Editors

This Special Issue aims to contribute to the progression of aerostructural engineering by addressing critical challenges and innovations in the analysis, design, and optimization of aerospace structures. These advancements are essential to improve performance, reduce costs, and enhance sustainability in the aerospace sector. The integration of advanced computational techniques, aeroelastic tailoring, novel materials, and optimization strategies has enabled significant progress in aerostructural design. However, further research is required to address complex issues such as multidisciplinary optimization and the incorporation of emerging technologies like morphing systems.

We invite contributions that span a wide range of topics including, but not limited to, the following: Advanced computational methods for aerostructural analysis; Aeroelastic tailored design for flutter mitigation; Multidisciplinary design optimization (MDO) techniques; The integration of novel materials into aerostructures; Machine learning applications in aerostructural analysis and optimization; Morphing systems.

Guest Editors

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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

Editor-in-Chief

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