



Aerodynamic Shape Optimization for Aerospace Engineering Applications

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Message from the Guest Editor

Dear Colleagues,

The search for more energy efficient aerospace designs, combined with the advances in computer science, has led to the use of Aerodynamic Shape Optimization (ASO). This is a powerful numerical tool that helps to design the shape of an aerospace vehicle for a given flow condition or set of conditions in a multi-point optimization problem. Today, ASO has been applied to a spectra of flow regimes: (i) low subsonic vehicles such as those for general aviation and urban air mobility segments; (ii) transonic airliners; (iii) supersonic jets; (iv) hypersonic vehicles. Some of these applications also involve disciplines such as structures and heat transfer in an integrated way by means of a Multidisciplinary Design Optimization (MDO) architecture.

The objective of this Special Issue is to present the state of the art in ASO.

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Guest Editor





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