

Special Issue

Multidisciplinary Design Optimization in Aerospace Engineering

Message from the Guest Editor

Multi-disciplinary design optimization (MDO) is a field of engineering that uses optimization methods to solve design problems incorporating a number of disciplines. MDO allows designers to incorporate all relevant disciplines simultaneously. The optimum of the simultaneous problem is superior to the design found by optimizing each discipline sequentially, since it can exploit the interactions between the disciplines. However, including all disciplines simultaneously significantly increases the complexity of the problem. This Special Issue on “Multidisciplinary Design Optimization in Aerospace Engineering” aims to provide an overview of the state-of-the-art and the main challenges in the field of aerospace engineering. Related approaches include design of experiments, numerical surrogate modeling, machine learning, and others. Application to single and multiple aerospace engineering disciplines will be considered.

Guest Editor

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Deadline for manuscript submissions

closed (31 January 2020)



Aerospace

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