Special Issue

Multidisciplinary Multiobjective Design Optimization

Message from the Guest Editor

Multidisciplinary design optimization (MD) is a methodology used in the design of complex engineering systems where there the interaction of many different disciplines is present. A multiobjective optimization problem is a mathematical optimization problem that involves multiple objective functions to be optimized simultaneously. The design of an aerospace system is fundamentally a multidisciplinary and multiobjective process. A large number of applications have been in the field of aerospace engineering, such as aircraft and spacecraft design. The goal of this Special Issue is to bring together the state-of-the-art in multidisciplinary multiobjective design optimization technologies in aerospace engineering.

Authors are encouraged to submit a paper to this Special Issue on topics including but not limited to the following: Multidisciplinary design optimization; Multi-point optimization; Multi-level optimization; Multi-fidelity optimization; Multi-physics design optimization; Decomposition methods; Surrogate modeling; Design under uncertainty; Artificial intelligence.

Guest Editor

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