Special Issue

Aircraft Structural Design Materials, Modeling, and Optimization

Message from the Guest Editor

This Special Issue, ***Aircraft Structural Design: Materials, Modeling, and Optimization***, aims to highlight recent advances and emerging directions in the analysis, design, and optimization of aircraft structural systems. We welcome contributions spanning fundamental research, applied studies, and industrial applications related to structural analysis, lightweight design, structural optimization, and advanced materials for aerospace applications. Topics of interest include, but are not limited to, innovative metallic and composite structures; architected materials and lattice systems; structural modeling and simulation; model order reduction techniques; multiscale and multiphysics design methodologies; topology, shape, and size optimization; aeroelasticity and structural dynamics; digital twins; structural health monitoring; additive manufacturing; and AI-enabled structural design frameworks.

Guest Editor

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