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Aerostructural Analysis, Design, and Optimization

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Deadline for manuscript submissions:
closed (31 December 2023)

Message from the Guest Editors

Dear Colleagues,

The Special Issue aims to present recent advanced models and methods on aero-structure analysis, design, and optimization, in order to develop applications in drag minimization, weight minimization, and structural safety. The topics of interest for the Special Issue include, but are not limited to:

- High-fidelity and/or multi-fidelity aerostructural analysis model;
- Geometric parameterization in aerostructural analysis;
- Aerostructural coupling analysis method;
- Sensitivity analysis for aerostructural optimization;
- Global and efficient optimization method for aerostructural design;
- Machine learning in aerostructural optimization;
- Aerostructural optimization under uncertainty;
- Geometry, layout, and sizing optimization in aerostructural design;
- Aerostructural optimization with composite structures;
- Flow-induced vibration control of aircraft;
- Fluid–structure interaction (FSI) analysis.

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Message from the Editor-in-Chief

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