

Special Issue

Aerodynamic Design with Machine Learning

Message from the Guest Editors

Machine learning has promoted advances in aerodynamic design optimization in multiple aspects such as aerodynamic modeling, shape parameterization, optimization architectures, etc. In order to provide our community with a briefing on the state-of-the-art and future directions, we have organized this Special Issue to collect relevant studies applied to the design optimization of airfoils, wings, aircraft, turbines, vehicles, etc. The topics include but are not limited to data-driven surrogate modeling, generalizable off-design constraints, aerodynamic shape parameterization, reinforcement learning, transform learning, multi-fidelity optimization, generative design, data-driven interactive design, etc. We look forward to your high-qualified contributions, especially those with demonstrated benefits compared to conventional methods.

Guest Editors

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Deadline for manuscript submissions

closed (22 December 2023)



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You are welcome to contribute a research article or a comprehensive review for consideration and publication in *Aerospace* (ISSN 2226-4310), an on-line, open access journal.

Aerospace adheres to rigorous peer-review as well as editorial processes and publishes high quality manuscripts that address both the fundamentals and applications of aeronautics and astronautics. Our goal is to enable rapid dissemination of high impact works to the scientific community.

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