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Aerodynamic Design with Machine Learning

Guest Editors:

Dr. Jichao Li

Prof. Dr. Joseph Morlier

Dr. Rhea Liem

Dr. Pramudita Satria Palar

Deadline for manuscript submissions:
closed (22 December 2023)

Message from the Guest Editors

Dear Colleagues,

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.

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Message from the Editor-in-Chief

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