



## Artificial Intelligence and Optimization in Aircraft Design and Unmanned Aerial Vehicles

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### Message from the Guest Editor

Dear Colleagues,

Urban air mobility (UAM) opens up the possibility of a new era for air travel. UAM has emerged as a safe and efficient air transportation system where everything, from small package delivery drones to passenger aircraft, is operating above populated areas. However, along with these promising benefits, challenges also arise. In particular, we need to create complex coupled system-level designs, realize fast interactive decision making, and maintain a higher system reliability and robustness by incentivizing cutting-edge research. One of the main forces is artificial intelligence (AI), which especially enables various design optimization architectures, realizes real-time decision making via surrogate modeling, and considers uncertainty within design optimization.

In line with the goal of the *Mathematics* journal, the aim of this Special Issue is to provide a platform where researchers present their original research contributions. In particular, this Special Issue focuses on AI and design optimization in UAM and expects to inspire novel research products with large-scale practical applications.





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## Message from the Editor-in-Chief

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