

Special Issue

Aircraft Noise Mitigation— Concepts, Assessment, and Implementation

Message from the Guest Editors

This Special Issue invites contributions on exterior aircraft noise mitigation, covering three subtopics:

1. Concepts

Novel approaches for noise reduction, including:

- a) Single-component modifications (retrofits or new designs);
- b) Whole-aircraft solutions for specific operations (source noise reduction or low-noise flight);
- c) Large-scale airport/air traffic scenarios (e.g., routing, fleet composition, or layout changes).

2. Assessment

Methods and tools for evaluating noise and mitigation concepts, such as:

- a) Experimental/numerical techniques (empirical to high-fidelity);
- b) Novel metrics (e.g., sound quality or exposure quantification) for single events or airport/airspace scenarios.

3. Implementation

Practical applications, including:

- a) Flight tests of new technologies;
- b) Real-world deployment (e.g., airlines/airports sharing experiences).

We welcome work on conventional, supersonic, or advanced air mobility vehicles.

Guest Editors

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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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