

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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