

## Special Issue

# Sustainable Civil Supersonic and Hypersonic Aircraft: Main Challenges and Latest Developments

### Message from the Guest Editor

We kindly invite you to submit full-research articles and review manuscripts addressing (but not limited to) the following topics:

- Holistic conceptual design methodologies and tools
- Innovative vehicle and subsystems configurations (with special interest to the impact of sustainable aviation fuels: bio-fuels, liquid hydrogen, etc.)
- Multidisciplinary design optimization
- Pollutant and greenhouse gases emission characterization in conceptual design
- Noise emissions characterization, abatement technologies and procedures
- Air quality and climate impact
- Sonic boom prediction: signature, atmospheric propagation, and meteorological effects
- Methodologies and tools for life-cycle cost estimations for supersonic and hypersonic transportation systems
- Technology road mapping methodologies and tools
- Concept of operations analysis: trajectory optimization, out-of-nominal mission, safety assessment, etc.
- Human factors and social acceptance
- Regulatory framework

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### Guest Editor

Dr. Roberta Fusaro

DIMEAS-Department of Mechanical and Aerospace, Politecnico di Torino, Corso Duca degli Abruzzi 24, 10129 Turin, Italy

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### Deadline for manuscript submissions

closed (31 March 2025)



## Aerospace

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## About the Journal

### Message from the Editor-in-Chief

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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### Editor-in-Chief

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