

Special Issue

Supersonic and Hypersonic Transportation Systems

Message from the Guest Editors

The aim of this Special Issue is to collect the most recent research advancements in the field of high-speed aerospace engineering. As of this Special Issue, I kindly invite you to submit full-research articles and review manuscripts addressing (but not limited to) the following topics:

- Supersonic and hypersonic transportation systems design methodologies and tools
- Innovative vehicle configurations for supersonic and hypersonic aircraft
- Aerothermodynamic characterization of high-speed vehicles
- Air-breathing high-speed propulsion systems design and optimization
- High-speed combustion modelling and simulation
- Impact of sustainable aviation fuels: bio-fuels, liquid hydrogen
- Structural analysis and multidisciplinary multi-objective optimization
- Pollutant and greenhouse gases emission, noise emissions characterization, air quality and climate impact
- Methodologies and tools for life-cycle cost estimations for supersonic and hypersonic transportation systems
- Concept of operations analysis: trajectory optimization, out-of-nominal mission, safety assessment, Human factors and social acceptance

Guest Editors

Dr. Roberta Fusaro

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

Dr. Mattia Barbarino

Head of Computational Acoustics Laboratory, Italian Aerospace Research Center (CIRA), 81043 Capua (CE), Italy

Deadline for manuscript submissions

closed (10 January 2023)



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Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
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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.

Editor-in-Chief

Prof. Dr. Konstantinos Kontis
School of Engineering, University of Glasgow, James Watt Building
South, University Avenue, Glasgow G12 8QQ, Scotland, UK

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