## **Special Issue**

# Instability and Transition of Compressible Flows

#### Message from the Guest Editors

Currently, the stability and transition of compressible flows receives extensive attention due to its significance in understanding the aerodynamics of aircrafts. State-of-the-art approaches have been increasingly developing in theoretical, computational, and experimental aspects. For this Special Issue of *Aerospace*, we invite review and research articles on the following topics.

- Stability and/or laminar-turbulent transition of the compressible boundary layer;
- Stability and/or laminar-turbulent transition of shock wave/boundary layer interaction;
- Stability and/or laminar-turbulent transition of shear layer and interfacial flow;
- Stability and/or laminar-turbulent transition of nonideal flow;
- Stability and/or laminar-turbulent transition of the rarefied gas:
- Theoretical, computational, or experimental methods regarding compressible flow stability and/or transition;
- Aerodynamic performance considering flow stability and/or transition around vehicles;
- Transition modeling:
- All other research related to stability and/or transition of compressible flows.

We look forward to your submissions.

#### **Guest Editors**

Prof. Dr. Song Fu

Dr. Peixu Guo

Dr. Guilai Han

Dr. Jie Ren

#### Deadline for manuscript submissions

28 February 2026



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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.

#### Editor-in-Chief

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