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High Speed Flows: Measurements & Simulations

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Deadline for manuscript submissions:
closed (29 December 2023)

Message from the Guest Editors

Dear Colleagues,

This Special Issue is inspired by broad interest in experimental and numerical simulation research activities to enable high-speed flights (supersonic and hypersonic range) by ground testing and translating the outcomes to the flight testing among the aerospace community.

Manuscripts describing experimental, computational, and/or theoretical research related to supersonic/hypersonic flows along with high-speed propulsion with a focus on future steps to enable high-speed flight are welcomed. Topics may include but are not limited to:

- Compressible aerodynamics, aerodynamic design;
- Shock waves and shock wave–boundary layer interactions;
- Numerical simulations of subsonic/supersonic turbulent reacting flows, turbulence modelling;
- High-speed active/passive flow controls;
- Ramjet/scramjet design, flame stability, combustion efficiency;
- Ground test facilities, flight experiments;
- Advanced measurements and non-intrusive diagnostics;
- Green propellants;
- Advanced propulsion to enable high-speed flights and space access.

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Message from the Editor-in-Chief

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