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Hypersonic Turbulence Flow Measurements and Simulations

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Deadline for manuscript submissions:

closed (31 July 2023)

Message from the Guest Editors

Dear Colleagues,

We are pleased to announce the launch of a new Special Issue on "Hypersonic Turbulence Flow Measurements and Simulations" in the Open Access journal *Aerospace* with the aim to showcase the state of the art of this discipline and to disseminate new ideas in a field which has recently experienced enormous interest.

Accurate aerodynamic predictions are critical for the hypersonic vehicles. design and optimization of Turbulence modeling remains a major source uncertainty in the computational prediction aerodynamic forces and heating for these systems. Currently, large discrepancies exist between predicted and measured turbulent aerodynamic heating, drag over highspeed configurations, and mean turbulent flow features above complex geometries and/or non-equilibrium conditions, warranting the urgent development and improvement of multi-fidelity computational models.











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Message from the Editor-in-Chief

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