Special Issue

Hypersonic Turbulence Flow Measurements and Simulations

Message from the Guest Editors

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

Guest Editors

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Deadline for manuscript submissions

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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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