Special Issue

Shock-Dominated Flow

Message from the Guest Editors

The shock-dominated flow is frequently encountered in high-speed aircraft and engines, and its flow characteristics directly determine the aerodynamic performance of the aircraft and engines. Due to the strong discontinuity and pressurization property of shock waves, the shock-dominant flow exhibits strong non-linearity, strong inviscid/viscous interaction, and significant historical effects, making it difficult to predict the related flow structures and behaviors. With the development of aircraft towards higher speeds, better performance, and more intelligent control, the shock-dominated flow is a key scientific issue, involving complex high-speed aerodynamics, flow stability, fluid/thermal structure/acoustic multi-fields interaction, flow control, and artificial intelligence.

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Deadline for manuscript submissions

closed (31 March 2024)

Aerospace

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Impact Factor 2.2
CiteScore 4.0

mdpi.com/si/177519

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