Special Issue

High Speed Flows, 2nd Edition

Message from the Guest Editors

High-speed gas flows occur during the movement of aircrafts, rockets, descent vehicles, as well as in combustion chambers, nozzles and in many other technological applications. High-speed flows are characterized by a complex shock–vortex structure and the presence of large gradients of gas parameters due to the emerging shock waves, areas of shear deformations and the possible development of gas-dynamic instabilities. This Special Issue of *Fluids* is focused on the recent advances in the numerical and experimental modeling of high-speed flows. The planned topics include (but are not limited to) the following areas: supersonic/hypersonic flows, flow control, shock waves, turbulence, vortices and vortex structures, boundary layers, heat fluxes, gas-dynamic instabilities.

Guest Editors

Prof. Dr. Olga A. Azarova

Department of Mathematical Modeling of Computer-Aided Design Systems, Federal Research Center "Computer Science and Control" of the Russian Academy of Sciences, Vavilova st. 40, 119333 Moscow, Russia

Dr. Tatiana Lapushkina

Laboratory of Physical Gasdynamics, Ioffe Institute, 194021 Saint Petersburg, Russia

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Fluids
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
fluids@mdpi.com

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Editor-in-Chief

Prof. Dr. D. Andrew S. Rees
Department of Mechanical Engineering, University of Bath, Bath BA2 7AY, UK

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