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Control of Dynamic Flow Fields

Guest Editor:

Dr. Taku Nonomura

Department of Aerospace Engineering, Graduate School of Engineering, Tohoku University, Sendai, Miyagi, Japan

Deadline for manuscript submissions:

closed (31 July 2021)

Message from the Guest Editor

Dear Colleagues,

To accelerate the efforts on the control of dynamic flow fields, we would like to organize the Special Issue "Control of Dynamic Flow Fields", in *Energy*. This Special Issue welcomes, but is not limited to, papers related to any of the three kinds of efforts for flow control:

- (1) A detailed analysis of dynamic flow control based on high-fidelity experiments and numerical simulations, such as
 - Advanced measurements, such as dynamic particle image velocimetry, for controlled flow fields;
 - High-fidelity simulations, such as direct numerical simulations or large-eddy simulations for controlled flow fields
- (2) Reduced order modeling or machine learning to run advanced flow control algorithms such as
 - Modal decompositions for modeling controlled flow fields based on the data-driven approach;
 - Discourteous Galerkin projection for modeling based on the analytical approach;
 - Machine learning such as deep neural networks for flow control algorithms.
- (3) Dynamic flow control results using advanced flow control devices, such as plasma actuators such as
 - Active flow com lusing plasma actuators;
 - Active flow control













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Editor-in-Chief

Prof. Dr. Enrico Sciubba

Department of Mechanical and Aerospace Engineering, University of Roma Sapienza, Via Eudossiana 18, 00184 Roma, Italy

Message from the Editor-in-Chief

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