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Machine-Learning Methods for Complex Flows

Guest Editors:

Dr. Ricardo Vinuesa

Department of Engineering Mechanics, KTH Royal Institute of Technology, 114 28 Stockholm, Sweden

Dr. Soledad Le Clainche

School of Aerospace Engineering, Universidad Politécnica de Madrid, 28031 Madrid, Spain

Deadline for manuscript submissions: closed (20 January 2021)

Message from the Guest Editors

We would like to invite you to contribute to a Special Issue of Energies on the subject area of "Machine-Learning Applications to Complex Flows". We are experiencing a rapid development of efficient data-driven methods to predict, analyze and simulate a wide range of complex turbulent flows. Our aim is to provide a complete view on the potential of these methods in the coming years, both for researchers and practitioners.

This Special Issue will deal with novel data-driven techniques to study complex flows. Topics of interest for publication include, but are not limited to:

- Neural networks
- Bayesian regression
- Gaussian processes
- Uncertainty quantification
- Optimization
- Flow reconstruction
- Remote sensing
- Structure identification
- Dynamical systems
- Modal decompositions
- Sustainability









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Editor-in-Chief

Prof. Dr. Enrico Sciubba

Department of Mechanical and Industrial Engineering, University Niccolò Cusano, 00166 Roma, Italy

Message from the Editor-in-Chief

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