Machine-Learning Methods for Complex Flows

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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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Message from the Editor-in-Chief

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