



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

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

Deadline for manuscript
submissions:

closed (20 January 2021)





energies



an Open Access Journal by MDPI

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

Energies is an international, open access journal in energy engineering and research. The journal publishes original papers, review articles, technical notes, and letters. Authors are encouraged to submit manuscripts which bridge the gaps between research, development and implementation. The journal provides a forum for information on research, innovation, and demonstration in the areas of energy conversion and conservation, the optimal use of energy resources, optimization of energy processes, mitigation of environmental pollutants, and sustainable energy systems.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed within Scopus, SCIE (Web of Science), Ei Compendex, RePEc, Inspec, CAPlus / SciFinder, and other databases.

Journal Rank: CiteScore - Q1 (*Engineering (miscellaneous)*)

Contact Us

Energies Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/energies
energies@mdpi.com
[X@energies_mdpi](https://x.com/energies_mdpi)