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Numerical and Experimental Methods in Research of Renewable Energy Systems

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Deadline for manuscript submissions:
closed (31 May 2023)

Message from the Guest Editors

Turbulence is one of the most important phenomena that has been the subject of intense investigations in the past centuries. The vast majority of flows that can be encountered in nature or industry are turbulent and therefore the proper approach to the modelling of turbulent structures is of great importance. Varied length and time scales, as well as the stochastic nature, contribute to the complexity of this phenomenon and pose challenges in the numerical methods.

This Special Issue aims to present and disseminate the most recent advances related to the theory, modelling and application of the turbulence models as well as the investigations of the cases where turbulence is an important factor.

Topics of interest for publication include, but are not limited to:

- Validation of existing turbulence models
- Turbulence in multiphase flows
- Turbulence in climate modelling/meteorology
- Turbulence control methods
- Impact of turbulence on fluid flow machinery/heat transfer
- Application of machine learning in the turbulence modelling



mdpi.com/si/145738

Special Issue



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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.

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

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