



energies



an Open Access Journal by MDPI

Transition/Turbulence Models for Turbomachinery Applications

Guest Editors:

Dr. Michele Marconcini

Department of Industrial Engineering, University of Florence, via di Santa Marta, 3, 50139 Florence, Italy

Dr. Roberto Pacciani

Department of Industrial Engineering, University of Florence, via di Santa Marta, 3, 50139 Florence, Italy

Deadline for manuscript submissions:

closed (31 October 2021)

Message from the Guest Editors

Current aerodynamic tools used for the design of turbomachinery components frequently fail to predict the flow details in blade passages. With the performance achieved by the current generation of turbomachinery the design optimization of the components at the flow details level is one of the options the designers have to further improve performance, durability, and environmental impact of future aeroengines and power plants.

This Special Issue invites high-quality research papers covering a wide range of topics related to turbulence and transition modelling and measurements. The papers are expected to provide contributions, and data, and ideas for improving the RANS/URANS approaches currently used in turbomachinery design and analysis.

- turbulence modelling
- transition modelling
- turbulence measurements
- turbomachinery flows
- scale resolving simulations
- machine learning for turbulence and transition modelling



mdpi.com/si/56732

Special Issue



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)