Special Issue

Transition/Turbulence Models for Turbomachinery Applications

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

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)



Energies

an Open Access Journal by MDPI

Impact Factor 3.2 CiteScore 7.3



mdpi.com/si/56732

Energies Editorial Office MDPI, Grosspeteranlage 5 4052 Basel, Switzerland Tel: +41 61 683 77 34 energies@mdpi.com

mdpi.com/journal/

energies





Energies

an Open Access Journal by MDPI

Impact Factor 3.2 CiteScore 7.3



energies



About the Journal

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.

Editor-in-Chief

Prof. Dr. Enrico Sciubba Department of Mechanical and Industrial Engineering, University Niccolò Cusano, 00166 Roma, Italy

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 (Control and Optimization)