Special Issue

Modeling Heat Transfer in Computational Fluid Dynamics

Message from the Guest Editors

Computational Fluid Dynamics (CFD) is the field of fluid mechanics in which numerical approaches are used to study fluid flows in various configurations. Using CFD it is possible to explore complex problems linking fluidgas, fluid-solid and fluid-fluid interactions. In most cases, the fluid flows are described mathematically by partial differential equations. CFD analyses are of great importance in the description of flow fields. Particularly, modeling heat transfer via conduction, convection, and radiation remains a challenging task for researchers to examine thermal energy transport. In this regard, CFD analyses have the tremendous time saving ability in the design thermal processes and are therefore easier, quicker, and cheaper than traditional data acquisition assessments. This Special Issue invites researchers to come forward with their new original manuscripts based upon numerical modeling of heat transfer in various configurations having engineering standpoints.

Guest Editors

Prof. Dr. Wasfi A. Shatanawi Department of Mathematics and General Sciences, Prince Sultan University, Riyadh 11942, Saudi Arabia

Dr. Khalil Ur Rehman

Department of Mathematics and General Sciences, Prince Sultan University, Riyadh 11942, Saudi Arabia

Deadline for manuscript submissions

closed (10 May 2023)



Energies

an Open Access Journal by MDPI

Impact Factor 3.0 CiteScore 6.2



mdpi.com/si/116849

Energies 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 3.0 CiteScore 6.2



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 Aerospace Engineering, University of Roma Sapienza, Via Eudossiana 18, 00184 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)