

Special Issue

Advanced Computational Fluid Dynamics Modeling

Message from the Guest Editors

The thermal management of products and processes helps engineers and researchers to understand the root cause of any problem which involves temperature gradients. Understanding the phenomenon of controlling the temperature of any product or process will critically ensure the reliability, durability, and safety aspects of any product or stability of the process. Numerical simulation such as computational fluid dynamics (CFD) enables us to understand the transport phenomenon of any system which is governed by conservation principles, such as conservation of mass, conservation of momentum, and conservation of energy. Since most transport phenomena have a complicated physical behavior in nature, they need to be solved by considering multiphysics. However, some of the problems will take assumptions into account and may be solved as simple physics problems. The goal of this Special Issue is to bring together articles that reflect the most recent advances in research and development of application of CFD in electronics, electric vehicles, aeroacoustics, transient thermal problems, biology, energy, and fluid–structure interaction.

Guest Editors

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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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