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 fluid-gas, 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.

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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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