Special Issue

Computational Fluid Dynamics (CFD) Study for Heat Transfer

Message from the Guest Editors

Heat transfer coupling with fluid flow plays a crucial role in many theoretical and practical applications, such as differential equations, combustion, aerospace, automobiles, refrigeration, propulsion, heat exchangers, and nuclear engineering. Over the decades, computational fluid dynamics (CFD) has been successfully used to solve various problems of conjugate heat transfer and fluid flow on computers, and it has gradually developed into a time-saving and low-cost technique with high fidelity. Particularly, CFD combined with machine learning or artificial intelligence (AI) shows a promising and strong potential of simulating the processes of heat and mass transfer. This Special Issue aims to feature original research and review articles on the most recent advances in methods, models, and applications of CFD for studying any heat transfer phenomena, and experimental results that support relevant CFD simulations are also acceptable.

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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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