Special Issue

Numerical Simulation of Convective Heat Transfer

Message from the Guest Editor

Convective heat transfer as an energy transport process can be found in different engineering and natural applications including heat transfer processes in heat exchangers, chemical reactors and solar collectors, cooling of electronic devices, transportation of contaminant in the urban landscape and air pollution, and motion of sea or ocean waves, among others. Therefore, understanding and control of these phenomena require the simulation of transport processes in various media. The development of computer systems has enabled us to perform numerical simulations of convective heat transfer in complex regions as an effective solution to the formulated challenge. Moreover, very often, a computational study is a single approach that can obtain important physical parameters of the analyzed processes. The present Special Issue will focus on numerical simulation of convective heat transfer in engineering and natural systems. It is a very good opportunity to combine original manuscripts on the considered topic to present useful guidelines for future research.

Guest Editor

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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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