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Numerical Simulation of Convective Heat Transfer

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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.

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Message from the Editor-in-Chief

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