

Special Issue

Advances in Numerical Analysis of Heat Transfer and Fluid Flow

Message from the Guest Editors

Numerical analysis developed into a crucial tool for the understanding of heat transfer and fluid flow properties in various engineering applications. This topic encompasses computational approaches, numerical tools and methods for the heat and mass transfer problems, single- and multi-phase fluid flow, nanofluidics, and phase change phenomena. The goal is to develop reliable and experimentally validated numerical approaches that can be used for the optimization of the thermal-hydraulic performance of heat exchangers, heat pumps, turbomachinery, HVAC&R components, renewable energy systems, internal combustion engines, and energy conversion. This Special Issue is open to original research articles using computational approaches, numerical tools and methods for the investigation of heat transfer and fluid flow in engineering applications. Review articles about the latest developments and research efforts in this field are also welcome.

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