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Enhancement of Heat Transfer and Fluid Flow

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Deadline for manuscript submissions:
closed (31 May 2022)

Message from the Guest Editors

This topic encompasses enhanced heat transfer and fluid flow in natural and forced convection of liquids and gases, conduction and radiation heat transfer as well as boiling and condensation.

A variety of enhancement techniques for heat transfer and fluid flow are being researched to improve the thermal and hydraulic performance of heat exchangers, heat pumps, turbomachinery, HVAC&R components, renewable energy systems, internal combustion engines, and energy conversion processes.

These enhancement techniques include but are not limited to improved geometries and shapes, extended surfaces, active and passive fluid flow control, microscale and nanoscale heat transfer and fluid flow, nanofluids, and multiphase flow.

This Special Issue is open for original research articles that use experimental, theoretical, or computational approaches to the study of heat transfer and fluid flow enhancement. Review articles about the latest developments and research efforts in this field are also welcome.

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Message from the Editor-in-Chief

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