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Fluid Mechanics, Heat Transfer and Thermodynamics

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Message from the Guest Editors

The Special Issue will focus on applying Second law analysis (SLA), including the concept of entropy, to both engineering applications and fundamental studies with respect to fluid mechanics, heat transfer, and thermal dynamics. The purpose is to gather and enhance the knowledge about how numerical and experimental results from SLA should be interpreted. The analysis of irreversibility in traditional flow, heat transfer and thermodynamic processes is one of the main topics of this Special Issue. In addition to traditional problems, irreversible processes in emerging subjects, such as nano- and microfluid flows and biological and physiological flows, are also of great interest.

Keywords: fluid mechanics; heat and mass transfer; thermodynamics; high-accuracy simulations; energy generation; new measurement techniques; entropy generation; second law analysis; irreversibility

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Message from the Editor-in-Chief

The concept of entropy is traditionally a quantity in physics that has to do with temperature. However, it is now clear that entropy is deeply related to information theory and the process of inference. As such, entropic techniques have found broad application in the sciences.

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