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Recent Developments in Dissipative Phenomena

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Deadline for manuscript submissions:
closed (31 October 2018)

Message from the Guest Editors

Dear Colleagues,

In recent years, large developments have been achieved towards a mathematical description of dissipative processes, from small scales where nonequilibrium fluctuations dominate the fate of the system, to macroscopic scales where maximizing the thermodynamical efficiency is a must. Dissipation has been proposed as the nonequilibrium counterpart of the thermodynamic potentials, which pave the road to the investigation of non thermodynamic phenomena.

The aim of this Special Issue is to overview the current status of research in this field, from stochastic to deterministic and quantum systems.

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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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