

Special Issue

Theoretical Aspect of Nonlinear Statistical Physics

Message from the Guest Editor

Focus of this Special Issue is to collect original and/or review papers, dealing with nonlinear and/or non-equilibrium statistical systems, which play a central role in modern statistical physics. The subjects of the volume may include, but are not limited to, the following areas: Foundations and mathematical formalism and theoretical aspects of classical and quantum statistical mechanics; non-linear methods and generalized statistical mechanics; information geometry and its connection to statistical mechanics; non-equilibrium statistical physics; mathematical methods of kinetic theory; Boltzmann and Fokker–Planck kinetics; dynamical systems; chaotic systems; and fractal systems.

Guest Editor

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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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Editor-in-Chief

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