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Advances in Applied Statistical Mechanics

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Message from the Collection Editor

Dear Colleagues,

The aim of this collection, is to collect papers in both the foundations and the applications of Statistical Mechanics going outside its traditional application. In particular, foundations regard classical and quantum aspects of statistical physics including generalized entropies, free-scale distributions, information theory, geometry information, nonextensive statistical mechanics, kinetic theory, long-range interactions and small systems. Applications are different and may include biophysics, seismology, econophysics, social systems, physics of networks, physics of risk, traffic flow, complex systems, fractal systems and others.

Specific topics of interest include (but are not limited to): Generalized entropies, Boltzmann entropy, Renyi entropy, Non linear kinetic, Fokker-Planck equations, Quantum information, Geometry information, Fractal systems, Complex systems, Networks, Econophysics, Sociophysics, Biophysics

Dr. Antonio M. Scarfone

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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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