

Special Issue

Modeling, Fractal, and Multifractal Artificial Intelligence of Complex Systems

Message from the Guest Editor

For this issue, we propose the use of fractal–multifractal theories in describing the dynamics of complex systems. By complex system, we mean the set of entities in nonlinear interaction at various scales of resolution, from the microscopic to the macroscopic scale. In such a context, dynamics at the subatomic, atomic, molecular, mesoscopic, intragalactic, and extragalactic scale will be considered. Dynamics analyses can also be extended to biological systems. All these dynamic descriptions must be based on notions and concepts such as entropy in the Shannon, Fischer, fractal sense, etc., as well as on the role of invariants that can be built based on the concepts of entropy and informational energy (multifractal entropy, informational energy in the sense of Onicescu, etc.)

Guest Editor

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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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Editor-in-Chief

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