Special Issue

Complexity and Statistical Physics Approaches to Earthquakes

Message from the Guest Editor

Earthquakes are considered a critical-point phenomenon, exhibiting nonlinearity, self-organized criticality, scaling, clustering, fractal/multifractal structures, and long-range interactions. The analysis of the earthquake phenomenon in the light of complexity theory is thus ubiquitous, and mathematical tools arising from statistical physics offer a consistent theoretical framework to better understand earthquake occurrence.

This Special Issue welcomes new contributions and reviews arising from, but not limited to, the fields of complexity theory and statistical physics approaches to earthquakes, random walks, nonlinear analysis, pattern recognition, stochastic models and statistical properties of seismicity, and earthquake forecasting.

- earthquake physics
- complexity
- statistical physics
- nonlinear dynamics
- stochastic models
- time series analysis
- random walks
- earthquake triggering
- statistical properties
- fractal/multifractal structures
- earthquake forecasting

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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