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# **Complexity and Statistical Physics Approaches to Earthquakes**

Guest Editor:

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## **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













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### **Message from the Editor-in-Chief**

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