



## Entropy, Nonlinear Dynamics, and Methods of Complex Systems in Earthquake Physics including Precursory Phenomena II

Guest Editor:

**Prof. Dr. Nicholas Vassiliou Sarlis**

Section of Condensed Matter  
Physics and Solid Earth Physics  
Institute, Department of Physics,  
National and Kapodistrian  
University of Athens,  
Panepistimiopolis Zografos, 157  
84 Athens, Greece

Deadline for manuscript  
submissions:  
**closed (31 March 2021)**

### Message from the Guest Editor

Dear Colleagues,

During the last decade, considerable progress has been made towards the understanding of preseismic processes. In this direction, the physics of critical phenomena, information entropy, and methods of complex systems have been applied for the study of rupture in the solid Earth crust.

From another point of view, during the 21st century, many very strong earthquakes have taken place (e.g., the 2011 M9.1 Tohoku, the 2004 M9.0 Sumatra, Andaman, or the 2010 M8.8 Chile earthquakes). Since the instrumentation in our days is much better than that of the previous century, the study of various physical (or geophysical) observables before these earthquakes may provide useful precursory signals. When combined with and studied within the aforementioned frame of modern methods, such signals may lead to more efficient earthquake prediction methods than ever before.

The scope of this Special Issue is to strengthen and present the most recent attempts in both theoretical and experimental methods to understand the physics of earthquakes and, hence, foresee their occurrence.

Dr. Nicholas V Sarlis  
*Guest Editor*





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### **Prof. Dr. Kevin H. Knuth**

Department of Physics, University  
at Albany, 1400 Washington  
Avenue, Albany, NY 12222, USA

## 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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*Entropy* Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

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