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Statistical Mechanics of Complex Systems

Guest Editor:

Prof. Dr. Adam Lipowski

Faculty of Physics, Adam
Mickiewicz University, 61-614
Poznań, Poland

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Message from the Guest Editor

Complex systems attract considerable attention of scientists from various disciplines. It seems that a key feature of any complex system is that while it is composed of a certain number of interacting elements, as a whole, it exhibits new emerging properties that are much different from the properties and behaviors of its components. Consequently, statistical mechanics approaches provide a well-suited and very promising methodology to examine complex systems. Indeed, due to the multitude of such studies, at least certain aspects of some complex systems are now well understood.

The aim of this Special Issue is to collect papers that introduce novel models or develop innovative methods to study complex systems. Papers that examine agent-based models, complex networks, cellular automata, or adaptive systems using computer simulations, stochastic processes, time series analysis, neural networks, or machine learning are particularly welcome.

Prof. Dr. Adam Lipowski
Guest Editor



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Special Issue



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Editor-in-Chief

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, St. Alban-Anlage 66
4052 Basel, Switzerland

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