Special Issue

Explaining Economic and Social Science Phenomena through Physical Models

Message from the Guest Editors

The idea that physics might play an important role in understanding and explaining various aspects of life has long been promoted by physicists. Let us mention, for example, such publications as *Light and Life* (N. Bohr) or *What Is Life?* (E. Schrödinger). Recently, we have observed a growing interest in modeling economic and social phenomena with physical methods. This is because traditional models used, for example, in economics fail, especially in the face of recent crises. Attempts to find better, more accurate models are leading to the emergence of entirely new fields, such as quantum information science related to this quantum game theory or more broadly econophysics. Searching for new, more precise risk measures seems to be particularly important. Can entropy present advantages as a measure of uncertainty or risk? Do quantum games or quantum information provide us with better tools for modeling social and economic phenomena? The present Special Issue is open to novel contributions on these topics, but also to others related to them, taking into account the wideness of physics and its applications.

Guest Editors

Dr. Marcin Makowski

Faculty of Physics, University of Bialystok, ul. Ciołkowskiego 1L, 15-245 Białystok, Poland

Prof. Dr. Jan Sładkowski

Institute of Physics, University of Silesia, 75 Pułku Piechoty 1, Pl 41-005 Chorzów, Poland

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Entropy
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
entropy@mdpi.com

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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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Editor-in-Chief

Prof. Dr. Kevin H. Knuth
Department of Physics, University at Albany, 1400 Washington Avenue, Albany, NY 12222, USA

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