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Thermodynamics and Population Dynamics

Guest Editor:

Prof. Themis Matsoukas

Department of Chemical
Engineering, Pennsylvania State
University, University Park, PA
16802, USA

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Message from the Guest Editor

This Special Issue focuses on the application of thermodynamics to population dynamics. The central property of the population is its distribution and its state under given external constraints. We invite contributions that explore associations between equilibrium thermodynamics and the distribution of dynamic populations. Of particular interest are stochastic processes that exhibit the features of phase transitions. Examples are percolation, the emergence of a giant component in networks, gelation in polymerization and colloidal aggregation, the spread of fires and epidemics. We are seeking papers that employ the tools of statistical thermodynamics to study and understand the behavior of such complex dynamical systems.



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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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Contact Us

Entropy Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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