Special Issue

Thermodynamics and Population Dynamics

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.

Guest Editor

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Deadline for manuscript submissions

closed (31 August 2019)

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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

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