Special Issue

Entropic Aspects Arising from Geometric Descriptions of Physical Phenomena

Message from the Guest Editor

The role of geometric methods in modern physical science is very important from applied and foundational perspectives alike. The concepts of complexity, entanglement, phase transitions, and quantum algorithms are examples of physical phenomena that may be observed in cleverly prepared experimental settings whose formal description and essential conceptual understanding can be enhanced by means of geometric concepts. It is our great pleasure to welcome your contributions to this Special Issue with the aim of advancing our geometric and entropic understanding of challenging problems appearing in condensed matter physics, general relativity, network science, quantum computing, and thermodynamics, to include a few research fields. At the same time, we hope to highlight the entropic aspects uncovered by means of the geometric modeling of natural phenomena, including special scenarios covered by either classical or quantum modern theoretical physics.

Guest Editor

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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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