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Entropies: Between Information Geometry and Kinetics

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submissions:

closed (16 February 2020)

Message from the Guest Editors

The history of entropy is a wonderful combination of physical, probabilistic, and geometrical ideas. Chemical and biological problems and modern data analysis further enrich this beautiful combination. This issue has an ambitious goal: To collect highly interdisciplinary papers that combine more than one subject and are related to geometric, statistical, and physical ideas of entropy. Geometric ideas in thermodynamics, statistical physics, and kinetics, geometry of data analytics in high dimensions, ideas of statistical physics in geometry, and mathematical backgrounds of all these approaches are very welcome. We are looking for new ideas and methods to support emerging and fast developing areas, like Artificial Intelligence and Smart Materials, and for solutions to classical problems such as efficient model reduction in kinetic systems. We also encourage authors to supplement articles with real-world applications whenever possible.



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Special Issue



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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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