Special Issue

Noise-Driven Dynamics in Far-from-Equilibrium Systems

Message from the Guest Editors

Recently, there has been impressive experimental and theoretical progress concerning the dynamical properties of noise-driven systems that are far from equilibrium. At the same time, there is substantial theoretical effort to understand fluctuation properties in such systems by proposing new quantitative approaches to characterize the breaking of detailed balance. Similar phenomena are also observed across a diverse set of fields including climate modeling, nanoscale mechanical systems, active matter, colloidal particles, and electronic circuits. The proposed Special Issue of *Entropy* is targeted at experimental and theoretical physicists and applied mathematicians from a range of traditional fields spanning biophysics, nonlinear and statistical physics, condensed and soft matter physics, as well as climate physics for whom it will be stimulating to explore common sets of new and emerging experimental techniques and theoretical tools and approaches for understanding the noisy dynamics of far-from-equilibrium systems.

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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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