Special Issue

From Order to Disorder: Superfluidity, Stochastic Processes, and the Dynamics of Life—Dedicated to Professor Peter McClintock on the Occasion of His 85th Birthday

Message from the Guest Editors

This special issue in honour of Prof Peter McClintock focuses on fields in which he has made groundbreaking contributions. The topics are but not limited to:

- superfluid vortices and turbulence
- quantum and classical fluctuations
- wave turbulence
- vortex nucleation and effective mass
- 2D superfluids and Kosterlitz–Thouless physics
- dissipation in quantum systems
- rare events in stochastic processes
- quantum turbulence and cavitation
- entropy production in nonequilibrium systems
- deterministic and stochastic dynamics
- biological dynamics and multiscale interactions
- interactions and couplings in dynamical systems
- biological and artificial ion channels
- physics of life
- biological oscillators
- stochastic resonance vibrational resonance

Guest Editors

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Prof. Dr. Laszlo B. Kish

Prof. Dr. Ladislav Skrbek

Deadline for manuscript submissions

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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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