



Probability in Living Systems

Guest Editor:

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Message from the Guest Editor

Living systems are characterized by their properties of self-organization and adaptation to their environments. Here, we can connect this nature of living systems to another big challenge in the wider arena of science and philosophy, i.e., probability, which is a fundamental cross-disciplinary concept in science.

We call for papers focusing on the interconnection between probability and living systems in order to activate interdisciplinary discussions on this topic at an interface between science and philosophy. Authors may focus on a particular level or inter-level of biological hierarchy, including cells, organisms, populations and ecosystems, under a deterministic or indeterministic framework. Possible approaches may include, but are not limited to, those from quantum biology, cell biology, brain science (e.g., Bayesian brain), behavioral biology, biosemiotics, ecology, and evolutionary biology (e.g., propensity interpretation of fitness). The issue also welcomes papers based on a general, theoretical (conceptual or mathematical) models, and those based on traditional philosophy.





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Message from the Editor-in-Chief

Philosophies searches for the syntheses of philosophical and scientific inquiries. It promotes philosophical work that is derived from the experience of diverse scientific disciplines and cultures. Multiple philosophies already exist – those of logic, information, computation, natural and artificial life, natural or artificial intelligence, complexity, technology, etc. Our mission is not to abandon philosophical roots and traditions of inquiry, but to promote the development of philosophical foundations and effective methodologies derived from diverse scientific explorations, and intended to enhance these explorations as to generate deeper and more holistic knowledge. Innovation may also be achieved through the cultural dimension. Other cultures can offer from their heritage a diversity of resources for exploration; these resources can also contribute to the emergent synthesis of philosophical inquiry.

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