Special Issue

Complexity Characteristics of Natural Language

Message from the Guest Editors

The science of complexity is an interdisciplinary approach to seeking answers to the question of the principles by which nature operates when composing basic elements of matter and energy into dynamic patterns and structures that propagate throughout the entire hierarchy of scales in the universe. The associated extraordinary emergent phenomenon, such as the syntactically organized natural language, superbly reflects these patterns and structures, expressed in its great ability to encode and transmit information about them and between them. Therefore, it is highly reasonable to expect that natural language—spontaneously created by nature—best mirrors the laws of nature and carries within it the essence of complexity. We thus invite researchers representing various disciplines, including language studies, computer studies, physics, mathematics, data science, and others, to submit their original papers reporting studies—empirical as well as modeling—whose results may contribute to a better understanding of the origins of natural language and the principles of its organization.

Guest Editors

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Deadline for manuscript submissions

closed (15 May 2025)

Entropy

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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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