Special Issue

Cutting-Edge AI in Computational Bioinformatics

Message from the Guest Editors

We are excited to announce a Special Issue on "Cutting-Edge AI in Computational Bioinformatics", which will not only showcase the latest advancements and innovations in applying artificial intelligence to solve complex problems in bioinformatics and computational biology but also delve into the critical role of information theory in these fields. Concepts such as self-information, entropy, and mutual information have guided research progress from physics to the biological sciences. In recent decades, information theory has contributed to significant advances in computational biology and bioinformatics across a broad range of topics, including sequencing, sequence comparison, error correction, gene expression, transcriptomics, biological networks, omics analyses, genome-wide disease–gene association mapping, and protein sequence, structure, and interaction analysis. This Special Issue will explore groundbreaking methodologies, tools, and applications that harness AI, including information theory, to unravel biological complexity and address pressing biomedical challenges.

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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.

Entropy is an online open access journal providing an advanced forum for the development and/or application of entropic and information-theoretic studies in a wide variety of applications. *Entropy* is inviting innovative and insightful contributions. Please consider *Entropy* as an exceptional home for your manuscript.

Editor-in-Chief

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