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Complexity, Complex Networks and Its Applications in Biological Systems

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Message from the Guest Editor

Complex networks appear in many biological and technological contexts, indicating universality of certain functional and organizational principles in complex systems. In fact, a long-standing problem in biological and social sciences is to understand the conditions required for the emergence and maintenance of cooperation in evolving populations. In nature, there are many examples of opposition or conflict which drive an improvement in an individual or in a group of individuals. The struggle for resources or survival have marked significant changes in the human body and other species, and in the way they relate. Darwin's ideas and the study of evolution have focused on competition as a driving force for evolutionary change.



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Special Issue



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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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