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Dynamics and Entropy in Networked Systems

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Message from the Guest Editor

Dear Colleagues,

The world is becoming increasingly connected, from IoT and 'smart' devices to social networks and 'big data'. Networked systems are not just relevant to information technology, they are also moving fast into many engineering applications, medical/healthcare, and cyberphysical system domains. There are many components with complicated interactions in such complex systems, and many of these complex systems, including urban cities, ecosystem, social and economic organizations, the human brain, and ultimately the entire universe, can be well described by complex networks by considering the individual as a node and the relationship as an edge in the network. Therefore, modeling these practical problems using complex networks is an effective approach.

This Special Issue offers an opportunity for novel interdisciplinary research and reviews that report on progress in the field of complex systems and improved techniques of entropy-based approaches in complex systems.

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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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