

Special Issue

Synchronization in Complex Networks of Nonlinear Dynamical Systems

Message from the Guest Editors

The mathematical abstraction of networks is a hugely successful tool for describing the structure of complex systems through the relations of their parts. When the parts of a complex system evolve with characteristic intrinsic frequencies, interaction through a network can lead to alterations in frequencies, phases and amplitudes. These effects, broadly studied under the topic of synchronization, are essential for the function, i.e., the global behavior, of complex systems. Recent years have seen a push to generalize networks to non-binary interactions and characterize new effects specific to higher-order interactions. This Special Issue of *Entropy* aims to present new results on the interplay of network structure and dynamics, with an emphasis on the remaining challenge of transferring and extending these results and techniques to generalized networks.

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