Scale in Complex Systems

Guest Editor:

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Deadline for manuscript submissions:
closed (31 October 2020)

Message from the Guest Editor

Complex systems can be characterized by the behaviors they possess along with the scale at which each behavior occurs. However, there are multiple different but related concepts for scale. The scale of a particular behavior can, depending on the context, correspond to the number of synchronized components involved, the degree of coarse-graining, under which a behavior is still distinguishable, or the magnitude of the behavior, to name a few. Furthermore, concepts such as coarse-graining are multi-faceted, with no single "best" way to coarse-grain a generic system.

Contributions addressing any of these issues are very welcome. Of particular importance is research that synthesizes and unifies existing approaches.

Prof. Dr. Yaneer Bar-Yam
Guest Editor

Special Issue

Editor-in-Chief

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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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