Nonlinear Sciences > Adaptation and Self-Organizing Systems

Complexity

Carlos Gershenson

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There is no single definition of complexity (Edmonds 1999; Gershenson 2008; Mitchell 2009), as it acquires different meanings in different contexts. A general notion is the amount of information required to describe a phenomenon (Prokopenko et al. 2008), but it can also be understood as the length of the shortest program required to compute that description, as the time required to compute that description, as the minimal model to statistically describe a phenomenon, etc.

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