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Self Organization

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~~Complex Adaptive Systems Overview~~ ~~Complex adaptive systems~~ **Introduction to Complexity: Models of Biological Self-Organization** ~~1 Intro and Self-Organization clip~~ ~~Biology and Self Organization~~ ~~Self organization~~ ~~Book self organized~~ ~~What is social self-organisation?~~ ~~Self-Organization~~ ~~Self-organization (Starling flock)~~

Information And Self Organization A

The vehicle we shall use is information. Since this word has several quite different meanings, all of which are important for our purpose, we shall discuss its various aspects. These range from Shannon information, from which all semantics has been exorcised, to the effects of information on receivers and

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the self-creation of meaning.

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Information and Self-Organization - A Macroscopic Approach ...

The various meanings of the concept "information" are discussed and a general formulation of the maximum information (entropy) principle is used. With the aid of results from synergetics, adequate objective constraints for a large class of self-organizing systems are formulated and examples are given from physics, life and computer science.

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Information and Self-Organization: A Macroscopic Approach ...

information as a measure of emergence, the inverse of Shannon's information as a measure of self-organization, while the balance between the two is interpreted as a measure of complexity.

Information and Self-Organization

In the information theoretic framework, it is customary to address the problem of defining and analyzing complexity and organization of systems either by using Shannon entropy, via Jaynes maximum entropy principle, or by means of the so-called Kullback informational divergence which measures the informational distance between two probability distributions.

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Information and Self-Organization - CORE

Self-organization, also called (in the social sciences) spontaneous order, is a process where some form of overall order arises from local interactions between parts of an initially disordered system. The process can be spontaneous when sufficient energy is available, not needing control by any external agent. It is often triggered by seemingly random fluctuations, amplified by positive feedback.

Self-organization - Wikipedia

de?nition: Self-organization is a process in which pattern at the global level of a system emerges solely from numerous interactions among the lower-level components of the system. Moreover, the rules specifying interactions among the system's components are executed using only local information, without reference to the global pattern.

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self-organizing systems, which form a new structure via a nonequilibrium phase transition. Typically, self-organization is defined as the evolution of a system into an organized form in the absence of external pressures. According to Haken, A system is self-organizing if it acquires a spatial, temporal, or functional structure

Information and Self-Organization: A Macroscopic Approach ...

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Interactions and Self-Organization in the Soil-Microbe ...

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