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~~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 the self-creation of meaning.

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Information and Self-Organization - A
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Hermann Haken | Springer. Springer Series in
Synergetics. Presents a unified point of view
on critical concepts of self-organizing
complex systems. Relates information to
quantum concepts and chaos theory.

Information and Self-Organization - A
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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

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Complex Systems, 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

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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

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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

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are executed using only local information,
without reference to the global pattern.

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Abstract. Ecosystems and other self-organizing systems develop system designs and mathematics that reinforce energy use, characteristically with alternate pulsing of production and consumption,...

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self-organizing systems, which form a new structure via a nonequilibrium phase

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Complex Systems 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

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use, characteristically with alternate
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Self-Organization, Transformity, and
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Conceptual model for self-organization in the
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location in soil, and the potential microbial
respiration rate increases, leading to local
depletion of oxygen (left-hand image, with

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Oxygen concentration represented as in Fig. 3). Increased microbial activity changes the local structure, creating a more ...

Interactions and Self-Organization in the
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Towards coordinated self-organization: An

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actor-centered framework for the design of disaster management information systems. Traditionally, disaster management information systems have been designed to facilitate communication and coordination along stable hierarchical lines and roles. However, to support coordination in disaster response, disaster management information systems need to cater for the emerging roles, responsibilities and information needs of the actors, often referred to as ...

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