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Self-organization (Starling flock) To

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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 | SpringerLink

Information and Self-Organization - A Macroscopic Approach to Complex Systems | Hermann Haken | Springer. Springer Series in Synergetics.

Presents a unified point of view on critical concepts of self-organizing

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Complex systems. Relates information to quantum concepts and chaos theory.

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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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Macroscopic Approach to Complex  
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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.

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Information and Self-Organization

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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



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seemingly random fluctuations,  
amplified by positive feedback.

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Self-organization - Wikipedia  
definition: 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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What Is Self-Organization?  
Abstract. Ecosystems and other self-organizing systems develop system designs and mathematics that reinforce energy use, characteristically

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with alternate pulsing of production  
and consumption,...

## Complex Systems

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Self-Organization, Transformity, and  
Information | Science

This book presents the concepts needed to deal with self-organizing complex systems from a unifying point of view that uses macroscopic data. 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

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

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Macroscopic Approach To  
Complex Systems

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

Self- Organization, Transformity, and  
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Ecosystems and other self-organizing  
systems develop system designs and  
mathematics that reinforce energy  
use, characteristically with alternate  
pulsing of production and  
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macroscopic data.

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Information and self-organization : a  
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Towards coordinated self-organization:  
An actor-centered framework for the  
design of disaster management  
information systems. Traditionally,  
disaster management information

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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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