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The vehicle we shall use is
information. Since this word has
several quite different meanings, all of

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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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Examples are given from physics, life
and computer science.

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Macroscopic Approach To 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

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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

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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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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

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external agent. It is often triggered by seemingly random fluctuations, amplified by positive feedback.

Self-organization - Wikipedia
definition: Self-organization is a process in which pattern at the global

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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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Macroscopic Approach To Complex Systems

What Is Self-Organization?

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

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and consumption,...

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?This book presents the concepts
needed to deal with self-organizing
complex systems from a unifying point

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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...

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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

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external pressures. According to Haken, A system is self-organizing if it acquires a spatial, temporal, or functional structure

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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
consumption, increasingly recognized

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as the new paradigm. Insights from the energetics of ecological food

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Self-Organization, Transformity, and Information

Conceptual model for self-organization in the soil-microbe complex. Substrate

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arrives at a location in soil, and the potential microbial respiration rate increases, leading to local depletion of oxygen (left-hand image, with oxygen concentration represented as in Fig. 3). Increased microbial activity changes the local structure, creating a more ...

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Communication systems reliably self-organize in populations of interacting agents under certain conditions.

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

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

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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

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