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Henrik Jeldtoft Jensen.
This book deserves 5
stars because it gives
crystal-clear, precise,
brutally honest and
unbiased coverage of
what "Self-Organized
Criticality" is and what
it is not.

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Self-Organized Criticality: Emergent Complex Behavior in

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Self-organized
criticality (SOC) is
based upon the idea

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that complex behavior can develop spontaneously in certain multi-body systems whose dynamics vary abruptly. This book is a clear and concise introduction to the field of self-organized criticality, and contains an overview of the main research results.

Self-Organized Criticality: Emergent Complex Behavior in

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Self-Organized Criticality: Emergent Complex Behavior in

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As an introduction to the concept, self-organized criticality (SOC) has been proposed by Bak et al. [10] to provide a framework of modeling such phenomena as persistent behavior, noise, and scale-invariant, which are widespread in nature.

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The Bak-Tang-
Wiesenfeld (BTW)
sandpile model is a
classical numerical
model in SOC theory.

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systems whose dynamics vary abruptly. This book is a clear and concise introduction to the field of self-organized criticality, and contains an overview of the main research results. The author begins with an examination of what is meant by SOC, and the systems in which it can occur.

Self-Organized Criticality: Emergent

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Overview. Self-organized criticality is one of a number of important discoveries made in statistical physics and related fields over the latter half of the 20th century, discoveries which relate particularly to the study of complexity in nature. For example, the study of cellular automata, from the

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early discoveries of
Stanislaw Ulam and
John von Neumann
through to John
Conway's Game of Life

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Self-organized
criticality is one of a
number of important
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related fields over the

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latter half of the 20th century, discoveries which relate particularly to the study of complexity in nature. For example, the study of cellular automata, from the early discoveries of Stanislaw Ulam and John von Neumann through to John Conway 's Game of Life and the extensive work of Stephen Wolfram, made it clear that complexity could be

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generated as an
emergent ..

Self-organized criticality - Wikipedia

Avalanches of events
are an important
feature of both in vivo
and in vitro recordings
of neuronal signals
(24-27), and
substantial evidence
has accumulated that
the brain itself
operates at a...

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Avalanches and criticality in self- organized nanoscale

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A complex system is a system composed of many components which may interact with each other.

Examples of complex systems are Earth's global climate, organisms, the human brain, infrastructure such as power grid, transportation or communication

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systems, social and economic organizations (like cities), an ecosystem, a living cell, and ultimately the entire universe.

Complex system - Wikipedia

Data-driven research, exploiting complexity theory (complex networks, percolation, self-organized criticality, agent-based modelling), helps in understanding the

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internal city dynamics
and achieving
sustainability from a
transportation
perspective, improving
efficiency and
performance [1, 2].

Research lines:

**Networks and
Information**

Technologies ...

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criticality (SOC)
maintains that complex
behavior can develop
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certain multi-body systems whose dynamics vary abruptly. This is a clear and concise introduction to the field of self-organized criticality, and contains an overview of the main research results.

Self-Organized Criticality: Emergent Complex Behavior in

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Emergent structures appear at many

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different levels of organization or as spontaneous order. Emergent self-organization appears frequently in cities where no planning or zoning entity predetermines the layout of the city.

Emergence - Wikipedia

Self-organized criticality is a very rich phenomenon as it combines self-

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organization and criticality to describe complexity. This concept was first introduced by P. Bak and the collaborators in the seminal paper in 1987.

Self-organized criticality

Self-organized criticality (SOC) is based upon the idea that complex behavior can develop spontaneously in

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criticality, and contains an overview of the main research results. certain multi-body systems whose dynamics vary abruptly. This book is a clear and concise introduction to the field of self-organized criticality, and contains an overview of the main research results.

Self-Organized Criticality by Henrik Jeldtoft Jensen

Self-organised criticality is based on the idea that complex

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behaviour can develop spontaneously in certain many-body systems whose dynamics vary abruptly (Jensen 1998).

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Edge of Chaos.
Emergent Complexity.
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Organized Criticality:
Defined. |Self-
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can be considered as a characteristic state of criticality which is formed by self-organization in a long transient period at the border of stability and chaos. Characteristics.

Self-Organized Criticality (SOC)

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with uncertainty disruption. In this article we propose a model of supply network self-organization evolution,

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and establish self-organized criticality as a cause of cascade failure. Our main purpose is to keep the system in a resilient range, i.e., critical state. A network structural design with smaller

Resilience Design of Healthcare Resources Supply Network ...

Self-organized
criticality: emergent

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complex behavior in
physical and biological
systems. Cambridge
UP; Cambridge: 1998.

Kinouchi O, Copelli M.

Optimal dynamical
range of excitable
networks at criticality.

Nat Phys. 2006;

2:348-351. Kitzbichler

MG, Smith ML,

Christensen SR,

Bullmore E. Broadband

criticality of human

brain network

synchronization.

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**Critical-State
Dynamics of
Avalanches and
Oscillations ...**

Self-organized criticality refers to the spontaneous emergence of self-similar dynamics in complex systems poised between order and randomness. The presence of self-organized critical dynamics in the brain is theoretically appealing and is

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supported by recent
neurophysiological
studies.
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