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Self Organization Autowaves And Structures

Autowaves are a
specific, yet very
important, case of
spatio-temporal
structures. The term
"autowave" was coined
in the Soviet Union in
analogy to the term
"auto-oscillator". This is
- perhaps too literal -

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translation of the Russian word "avto-ostsillyatory" (= self oscillator) which in its proper translation means "self-sustained oscillator".

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Autowaves are a specific, yet very important, case of spatio-temporal structures. The term

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Organization :
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equilibrium :
proceedings of an
international
symposium, Pushchino,
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Proceedings of an
International
Symposium Pushchino,
USSR, July 18-23, 1983.
[V I Krinskiĭ] --

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According to its
definition, Synergetics
is concerned with
systems that produce
macroscopic spatial,
temporal, or functional
structures.

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Barelko V.V. (1984)

Self-Organization
Phenomena and
Autowave Processes in
Heterogeneous
Chemical and Physical
Systems. In: Krinsky
V.I. (eds) Self-
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**Self-Organization
Phenomena and
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Self-Organization Self-organization is a process in which structure and functionality (pattern) at the higher level of a system emerge solely from numerous interactions among the lower-level components of a system without any external or centralized control. From: Autonomic Network Management Principles, 2011

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Autowaves (AW) are distributed analogues of the self-oscillation observed in pointwise systems. Examples of them are the combustion waves, nerve impulses, waves of distribution tunnel transition (in semiconductors), etc. Autowave processes (AWP) underlie the

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majority of processes of management and information transfer in biological systems.

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**Autowave -
Wikipedia**

Self-organization in chemistry includes molecular self-assembly, reaction-diffusion systems and oscillating reactions, autocatalytic networks, liquid crystals, grid complexes, colloidal

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crystals, self-assembled monolayers, micelles, microphase separation of block copolymers, and Langmuir–Blodgett films.

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Self-organization - Wikipedia

Self-organization refers to a broad range of pattern-formation processes in both physical and biological systems, such as sand grains assembling into

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rippled dunes (Figure 1.1), chemical reactants forming swirling spirals (Figure 1.3a), cells making up highly structured tissues, and fish joining together in schools.

What Is Self-Organization?

Self-organization is typically defined as the evolution of a system into an organized form in the absence of external pressures

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explicitly guiding the local behavior of the sub-systems. For example, an ecosystem may develop spatial structures in order to deal with diminishing resources.

**Self Organization -
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Hierarchical

Microswarms with

Leader-Follower-Like

Structures:

Electrohydrodynamic

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Multimode Collective
Photoresponses Xiong
Liang State Key
Laboratory of
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for Materials Synthesis
and Processing,
International School of
Materials Science and
Engineering, Wuhan
University of
Technology, 122 Luoshi
...

**Hierarchical
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Leader-Follower-Lik

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Self-organization in nanoscale systems involves their natural tendency to form structures with long-range order, i.e., order at the scale much larger than the size of an individual nanostructure. In general, self-assembly is required to produce large numbers of individual nanoparticles (or

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nanostructures) having
unique and/or tailored
properties.

Biointerface: Self-assembly and Self-organization

The model of evolution of localized plastic strain proposed in presumes that self-organization of the defect structure occurs in the form of autowaves of a localized plastic flow [1, 3], which.

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**Autowaves in
moving excitable
media -**

ResearchGate

"Self-organization" can be a very loaded term, and when there is not a discussion within organizations around what this means, teams will typically create their own convenient meaning for it.

Council Post: Three

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**Common
Misunderstandings
Of Self ...**

DYNAMICS OF SELF-
ORGANIZED AND SELF-
ASSEMBLED

STRUCTURES Physical
and biological systems

driven out of
equilibrium may
spontaneously evolve

to form spatial
structures. In some
systems molecular

constituents may self-
assemble to produce
complex ordered

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structures.

Autowaves And

DYNAMICS OF SELF-

ORGANIZED AND

SELF-ASSEMBLED

STRUCTURES

Self-organizing teams
are all the rage.

Organizations aim to
become Teal or shift
traditional structures to
entirely self-steering
teams. When done for
the right reasons,
these shifts are
something I encourage.
It seems like a good

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way to appreciate the
autonomy and
intelligence that we all
have.

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**Why Liberating
Structures Are
Instruments For Self**

...

Board Self-Assessment
... For the new board
member, it is an
orientation handbook
that provides useful
information about the
organization, board
structure and

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operations, and fellow board members and staff. For the balance of a member's board service, the manual then becomes an indispensable working tool and a central resource about the ...

**Board
Responsibilities and
Structures — FAQs -
BoardSource**

Self-organization is one of the major themes within complex

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systems and a pervasive phenomenon in our world, complex organizations like schools of fish, ant colonies, and car traffic manage to organize themselves into emergent patterns without any form of global coordination.

Organizational Self-Organization - Systems Innovation

Self-organization and the self-assembling

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process are promising tissue engineering approaches that have already shown great potential to engineer complex tissues with functional properties approaching native tissue values. Of particular significance is the fact that some self-organizing tissues have already been used in clinical applications.

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