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An agent-based model (ABM) is a class of computational models for simulating the actions and interactions of autonomous agents (both individual or collective entities such as organizations or groups) with a view to assessing their effects on the system as a whole. It combines elements of game theory, complex systems, emergence, computational sociology, multi-agent systems, and evolutionary programming.

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 This course considers a wide variety of applications of agent-based models to the social sciences, including residential segregation, revolution, social influence, urban growth, war, alliances, organizational change, elections, and stock markets.

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A well-known theoretical-methodological limitation in social science is accounting for spatio-temporal dynamics, this is the reason why new methodological approaches, such as agent-based modeling, have gained relevance in the study of self-organization in the social science domain. 3 A systematic review

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Social Self-Organization: Agent-Based Simulations and Experiments to Study Emergent Social Behavior Average Rating: (0.0) stars out of 5 stars Write a review Dirk Helbing
Self-organization and social science - Springer

Self-organization, also called 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 seemingly random fluctuations, amplified by positive feedback. The resulting organization is wholly decentralized, distributed over all the components of the system. As such, the organization

SELF-ORGANIZATION IN COLLECTIVE ACTION

Self-organization has been linked to resilience, particularly in situations of low predictability in which agents use a variety of strategies to survive or meet some objective. This underlies the adaptive response described in the panarchy model (Chapter 6.5.7). The nature of a self-organization in society depends largely on existing structures, perceptions, and values; for example, emergent groups occur more frequently in the United States and Canada than in Japan, which has a culture with ...

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Social Self-Organization: Agent-Based Simulations and Experiments to Study Emergent Social Behavior (Understanding Complex Systems) Helbing, Dirk (ed.) Springer-Verlag: Berlin, 2012 ISBN 9783642240034 (hb) Order this book. Reviewed by John Bragin UCLA Lecturer (periodic) in Complex Systems Science

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Assuming as I do the essentially social character of the ethical end, we find in moral reflection a

conflict in which certain values find a spokesman in the old self or a dominant part of the old self, while other values answering to other tendencies and impulses arise in opposition and find other spokesmen to present their cases.

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“Agent-based modeling,” in *Social Self-Organization. Agent-Based Simulations and Experiments to Study Emergent Social Behavior*, ed. D. Helbing (Berlin: Springer), 25–70. Google Scholar

Self-organization - Wikipedia

The self has meaning only within the social context, and it is not wrong to say that the social situation defines our self-concept and our self-esteem. We rely on others to provide a “social reality”—to help us determine what to think, feel, and do (Hardin & Higgins, 1996).

[Agent-based model - Wikipedia](#)

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self designing organizations are well suited for stable, predictable markets and environments. ... because transorganization systems are composed of multiple organizations, the change agent needs to treat each organization differently. ... organizations should generate sustainable outcomes across economic social and ecological objectives.

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This question is even more difficult to answer than the long-standing question, what are the forces that keep our world together. However, the ...

The Social Self by George Herbert Mead

CT proposes a dynamic and holistic understanding of self-organization. CT researchers study questions like: •Is intelligence a precondition for self-organization (cognitive and reactive agents in agent-based simulations)? •How are the boundaries of self-organizing complex systems and the “self” defined (e.g., Rhodes, Murphy,

The Social Self: The Role of the Social Situation ...

In agent-based modeling (ABM), a system is modeled as a collection of autonomous decision-making entities called agents. Each agent individually assesses its situation and makes decisions on the basis of a set of rules. Agents may execute various behaviors appropriate for the system they represent—for example, producing, consuming, or selling.

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