

# Complex Systems

Emergence  
over scale

Self-Organization  
over time

## Game Theory

Prisoner's dilemma (PD)  
Rational decision making  
Iterative PD  
n-person PD  
Bounded rationality  
Irrational behavior  
Cooperation versus competition  
Spatial/network game theory  
Evolutionary game theory

## Collective Behavior

Social dynamics  
Collective intelligence  
Self-organized criticality  
Herd mentality  
Agent-based modeling  
Phase transition  
Synchronization  
Ant colony optimization  
Particle swarm optimization  
Swarm behavior

## Nonlinear Dynamics

Time series analysis  
Ordinary differential equations  
Iterative maps  
Phase space  
Attractors  
Stability analysis  
Population dynamics  
Chaos  
Multistability  
Bifurcation  
Coupled map lattices

## Networks

Scale-free networks  
Social network analysis  
Small-world networks  
Community identification  
Centrality  
Graph theory  
Motifs  
Scaling  
Robustness/vulnerability  
Systems biology  
Dynamical networks  
Adaptive networks

## Systems Theory

Homeostasis  
Feedbacks  
Self-reference  
Goal-oriented/guided behavior  
System dynamics  
Entropy  
Sense making  
Autopoiesis  
Cybernetics  
Information theory  
Computation theory  
Complexity measurement

## Evolution & Adaptation

Artificial neural networks  
Evolutionary computation  
Genetic algorithms/programming  
Artificial life  
Machine learning  
Evo-Devo  
Artificial intelligence  
Evolutionary robotics  
Evolvability

## Pattern Formation

Spatial fractals  
Reaction-diffusion systems  
Partial differential equations  
Dissipative structures  
Percolation  
Cellular automata  
Spatial ecology  
Self-replication  
Spatial evolutionary biology  
Geomorphology

# Complex Systems

**Ali A. Minai, Dan Braha, Yaneer Bar-Yam**



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