

Nonlinear Dynamics, Psychology, and Life Sciences (ISSN 1090-0578)

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Nonlinear Dynamics, Psychology, and Life Sciences publishes original theory and empirical research on attractors, bifurcations, chaos, fractals, solitons, catastrophes, self-organization processes and emergence, power law distributions, cellular automata, agent-based models, genetic algorithms and other evolutionary computations, social and neural networks, with application to problems encountered in psychology, biology, management, economics and other social and life sciences.

Nonlinear Dynamics, Psychology, and Life Sciences publishes articles that augment the fundamental ways we understand, describe, model and predict nonlinear phenomena in psychology and the life and social sciences. The broad mixture of the disciplines represented here indicates that many bodies of knowledge share common principles. By juxtaposing developments in different fields within those applications, the scientific communities may obtain fresh perspectives on those common principles and their implications.

All articles are reviewed by top nonlinear scientists in their respective disciplines. *Nonlinear Dynamics, Psychology, and Life Sciences* is indexed in PsycINFO, Medline, Econlit, Scopus, ScienceDirect, and MathSciNet. Institutional subscriptions are also available through subscription vendors.



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Topics covered in
**Nonlinear Dynamics, Psychology,
and Life Sciences** (ISSN 1090-0578)

The following list is representative, but not exhaustive.

Biomedical Sciences

Biological stability
Cancer epidemiology
DNA structure
Effects of cell phones
EEG, cortical arousal
EMG signals
Epilepsy
Gait
Heart rate variability
Lotka-Volterra functions
Ocular-motor system
Networks and epidemics
Neuronal systems
Nursing practice
Pain perception
Pathology
Recovery from coma
Resilience
Visualization

Psychology

Adolescent suicide
Aggressive behavior, violence
Aiming movements
Animal and human learning
Anxiety disorders
Artificial grammar
Binge drinking, substance abuse
Bipolar disorder
Child development
Cognition-action sequences
Cognitive development
Cognitive noise
Collective intelligence
Computational art, aesthetics
Conversation dynamics
Creative behavior
Dreaming
Emotions and moods
Family systems
Gambling behavior
Haptic perception
Health and positive psychology
Knowledge structure
Learning
Love and happiness
Mother-infant interaction
Motivation and flow
Multistable perception
Neural networks and cognition
Obsessive-compulsive disorder
Pedophilia
Prediction of chaos
Psychophysics
Psychotherapy
Science problem solving
Self, self-esteem

Self-injuring behavior
Serial murderers
Social evolution
Speech perception, production
Sports performance
Sport talent identification
Temperament
Vigilance and visual search

Organizational Behavior

Accident analysis
Coalition structures
Cognitive workload and fatigue
Complex adaptive systems
Emergency response
Emergent phenomena
Evolutionary change
Health care system
Hierarchical work flow
Leadership emergence
Leadership in networks
Local rules and fitness
Modular systems
News streams and text analysis
Organizational learning
Personnel selection and turnover
Teamwork
Urban segregation
Virtual communities
Work group coordination

Economics

Agricultural cycles
Business cycles
Central bank policy
Cournot and Bertrand dynamics
Currency markets
Diffusion of innovation
Drug markets
Economic evolution
Econophysics
Financial accumulation
Fisheries policy
Investment patterns
Non-classical theory
Oligopolies
Population dynamics
Speculative bubbles
Supply-side market behavior
Unemployment and inflation

Education

Motivation
Teacher-student interaction
Attendance
Policy

Nonlinear Methodology

Agent-based models
Catastrophe theory analysis
Entropy
Experimental design
Exponential distributions
Fractal dimensions

Lyapunov exponents
Lag length in time series
Markov processes
Phase-space diagrams
Power law distributions
Recursion analysis
State-space grids
Symbolic dynamics
Time series analysis

Special Issues

Agent-based models
Nonlinear methods
“Paradigm of normal science?”
Dynamics of civilizations
Impact of Edward Lorenz
Medical practice
Creative behavior
Developmental Psychopathology
Organizational Dynamics
Dynamics in Education
Optimum Variability
Interpersonal Synchronization
Neurodynamics

Annual Art Feature

The cover art for *NDPLS* is designed by an artist who specializes in computational art, or other influences from chaos and complexity theory. A different feature artist is chosen each year.

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