

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

The following list is representative, but not exhaustive. The boundaries between the categories are somewhat arbitrary and overlap with Sociology and Archaeology in some instances.

**Bioscience-Medicine**

- 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
- 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
- Family systems
- Gambling behavior
- Haptic perception
- Health and positive psychology
- Knowledge structure
- Love and happiness
- Motivation and flow
- Multistable perception
- Neural networks and cognition
- Pedophilia
- Prediction of chaos
- Psychophysics
- Psychotherapy
- Science problem solving
- Self, self-esteem
- Serial murderers
- Social evolution

- Speech perception, production
- Sports performance
- Sport talent identification
- Temperament
- Visual search

**Organizational Behavior**

- Coalition structures
- Complex adaptive systems
- Emergency management
- 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
- 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
- Instability
- Non-classical theory
- Oligopolies
- Population dynamics
- Soviet investment patterns
- Speculative bubbles
- Supply-side market behavior
- Unemployment and inflation

**Nonlinear Methodology**

- Agent-based models
- Catastrophe theory analysis
- Entropy
- Experimental design
- Exponential distributions
- Fractal dimensions
- Lyapunov exponents
- Markov processes
- Phase-space diagrams
- Power law distributions
- Recursion analysis
- Symbolic dynamics
- Time series analysis

**Special Issues**

- Agent-based models
- Nonlinear methods
- “Paradigm of normal science?”
- Dynamics of civilizations
- Impact of Edward Lorenz
- Medical applications
- Creative behavior  
*(in progress for 2011)*

**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. The fractal cube on the other side of this flyer was designed by Danny Della-Bosca and appeared on the cover the July, 2009 issue. The fractal below was generated by J. C. Sprott and appeared on the cover of the January, 2004 issue.

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