

Abstracts to the 2011-2012 Conferences of the Society for Chaos Theory in Psychology & Life Sciences

SCTPLS is an international forum that brings together researchers, theoreticians, and practitioners interested in applying nonlinear dynamical systems theory concepts of attractors, bifurcations, chaos, fractals, catastrophes, self-organization, neural networks, cellular automata, agent-based modeling, and related ideas to substantive problems found in psychology and the life and social sciences. Its members hail from numerous specialties within psychology, biology, neuroscience, physiology and medicine, economics, management, sociology, political science, education, engineering, and the humanities. They live and work in more than 30 countries.

The SCTPLS Annual International Conferences offer a unique intellectual and social atmosphere that stimulates dialog with symposia, roundtables, single paper presentations, prominent guests in nonlinear science, and educational workshops. Presentations may be theoretical, applied, empirical, or methodological. The forum is based on the principle that the development of nonlinear science is best served by the cross-fertilization of ideas from all the contributing disciplines. The abstracts to the 21st (20th Anniversary) and 22nd SCTPLS Annual International Conferences have been re-edited and prepared for free downloading from

www.societyforchaostheory.org/conferences.html.

Calls for papers and related details for participation in SCTPLS conferences can be reached from the same web page. The cover images from the abstract documents for the 2011 and 2012 conferences appear in Figs. 1 and 2. The abstracts and citations to the conference presentations are included in the *PsycEXTRA* database published by the American Psychological Association. The SCTPLS Publications Committee intends to continue preparing new abstract documents soon after each conference transpires. Many of the contributions to the conferences evolved into *NDPLS* articles, articles for other journals, or other works by the authors.

SCTPLS also sponsors the International Nonlinear Science Conference series which, to date, have taken its members to Vienna, Heraklion, Tokyo, Palermo, and Barcelona to discover new vistas in nonlinear science wherever they might be located. The abstracts to the 5th INSC have been prepared for free downloading from the same web address above. The cover image to the document appears in Fig. 3. The abstracts are also included in the *PsycEXTRA* data base. We encourage the *NDPLS* readers to present their latest research at one of our extraordinary events.

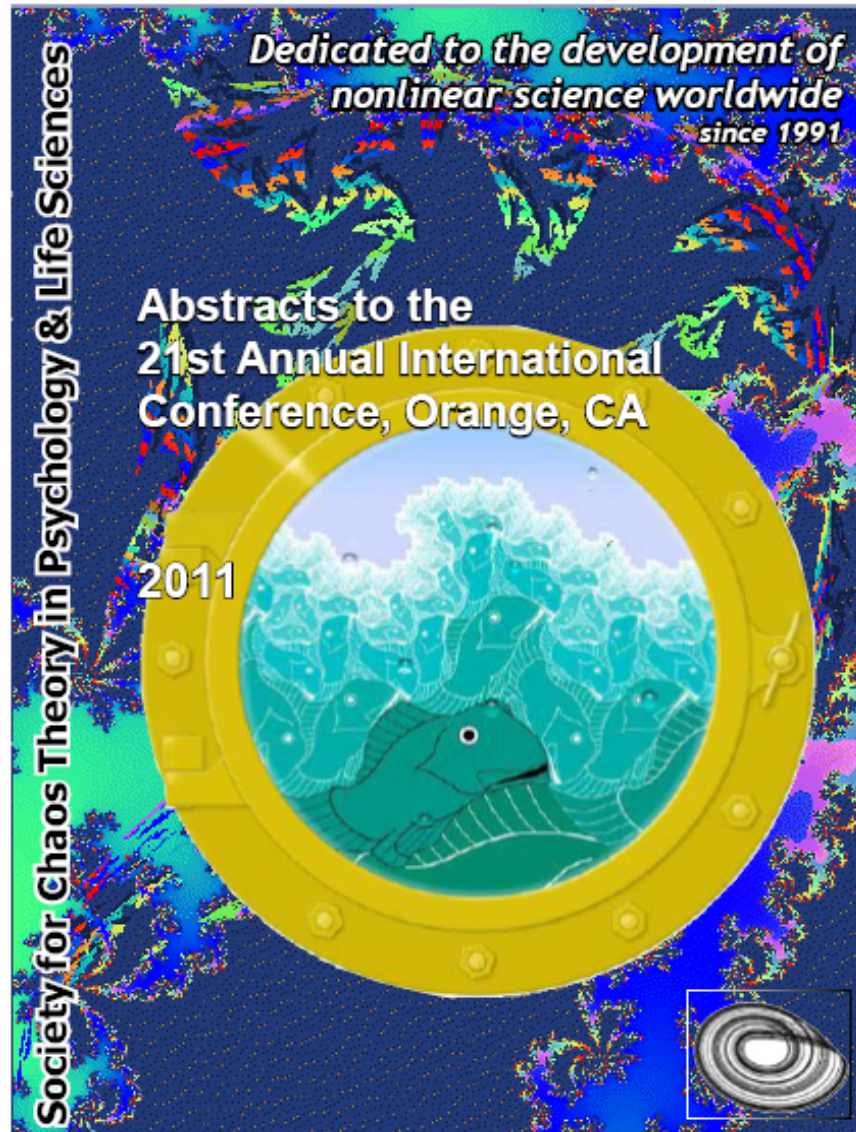


Fig. 1. Cover page to the 2011 abstracts. Image "Tesselation of Fish" by Robert Fathauer and Fractal background by J. C. Sprott, used by permission.



Fig. 2. Cover page to the 2012 abstracts. Fractal background by J. C. Sprott, used by permission.



Fig. 3. Cover page to the 2012 INSC abstracts. Photo courtesy of the University of Barcelona. Fractal background by J. C. Sprott, used by permission.

Ad Hoc Reviewers for 2011

The NDPLS Editorial Board sincerely thanks the following people who reviewed manuscripts received in 2011:

Gaetano L. Aiello
Deborah J. Aks
Iris R. Bell
Ed de St. Aubin
Richard Field
Terrill L. Frantz
Robert Galatzer-Levy
Robert Hristovski
S. Lee Hong
David Katerndahl
Dominic E. Nathan
Jose Navarro
David Pincus
Michael Radin
Patrice Renaud
David Schuldborg
Paul van Geert

Color Graphics for 2012

The following articles published in 2012 contained color figures. Print subscribers can view and obtain color graphics from the NDPLS web site. Select Articles and Abstracts from the main menu:

- Dimitriadis, S. I., Laskaris, N. A., Tsirka, V., Vourkas, M., & Micheloyannis, S. (2012). An EEG study of brain connectivity dynamics at the resting state. *NDPLS, 16(1)*, 5-22.
- Nathan, D. E., Guastello, S. J., Prost, R. W., & Jeutter, D. C. (2012). Understanding neurmotor strategy during functional upper extremity tasks using symbolic dynamics. *NDPLS, 16(1)*, 37-59.

Manuscripts Accepted for Publication

The following articles have been accepted for publication and will be appearing in 2013:

- Backström, T., Hagström, & Göransson, S. Communication as a mechanism for cultural integration.
- Brooks, B. P., DiFonzo, N., & Ross, D. S. The GBN-dialog model of outgroup-negative rumor transmission: Group membership, belief, and novelty.
- Dal Forno, A., & Merlone, U. Nonlinear dynamics in work groups with Bion's basic assumptions.
- Frantz, T. L., & Carley, K. M. The effects of legacy organization culture on post-merger integration.
- Gregson, R. A. M. Decision making with complex nonlinear systems: Inference and identification in the context of DS22q11.2.
- Guastello, S. J., Boeh, H., Gorin, H., Huschen, S., Peters, N. E., Fabisch, M., & Poston, K. Cusp catastrophe models for cognitive workload and fatigue: A comparison of seven task types.
- Mateos de Cabo, R., & Gimeno, R. Estimating population ecology models for the WWW market: Evidence of competitive oligopolies.
- Navarro, J., Curioso, F., Gomes, D., Arrieta, C., & CortJs M. Fluctuations in work motivation: Task does not matter!
- Patak, S., Pokharel, M. P., Mahadevan, S. Hyper-competition, collusion, free riding or coopetition: Basins of attraction when firms simultaneously compete and cooperate.
- Rail, D. The metaphor-gestalt synergy underlying the self-organization of perception as a semiotic process.
- Salem, P. The complexity of organizational change: Describing communication during organizational turbulence.
- Sprott, J. C. Is chaos good for learning?
- Stevens, R., Gorman, J. C., Amazeen, P., Likens, A., & Galloway, T. The organizational neurodynamics of teams.
- Steenbeek, H., & van Geert, P. The emergence of learning-teaching trajectories in education: A complex dynamic systems approach.
- Trenchard, H. American coot collective on-water dynamics.
- Van Dusen, B., & Taylor, R. P. The art and science of hyperbolic tessellations.

Index Services for NDPLS

The NDPLS Editorial Board and the Society for Chaos Theory in Psychology & Life Sciences are pleased to report that *Nonlinear Dynamics, Psychology, and Life Sciences* is now included in *Social Sciences Citation Index*, *Journal Citation Reports/Social Sciences Edition*, and *Current Contents/Social and Behavioral Sciences*, all of which are produced by Thomson Reuters. The inclusion of NDPLS in their Web of Science and related reports demonstrates our dedication to providing the most relevant and influential nonlinear dynamics content to our community.



NDPLS is also indexed in *MathSciNet*, *Medline*, *JEL/Econlit*, *ScienceDirect*, and *Scopus*. We would like to thank the American Economic Association, American Mathematical Association, American Psychological Association, Elsevier, and the National Library of Medicine for all their efforts on our behalf.

A key word index for NDPLS appeared in the January 2012 issue of NDPLS. Copies may be downloaded free of charge from the NDPLS web site.