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Official quarterly research journal of the Society for Chaos Theory in Psychology & Life Sciences since 1997. NDPLS 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, agent-based models, social and ...

Nonlinear Dynamics, Psychology, and Life Sciences

Chaos theory is a branch of mathematics focusing on the behavior of dynamical systems that are highly sensitive to initial conditions. "Chaos" is an interdisciplinary theory stating that within the apparent randomness of chaotic complex systems, there are underlying patterns, constant feedback loops, repetition, self-similarity, fractals, self-organization, and reliance on programming at the ...

Chaos theory - Wikipedia

Nonlinear Dynamics provides a forum for the rapid publication of original research in the developing field of nonlinear dynamics. The scope of the journal encompasses all nonlinear dynamic phenomena associated with mechanical, structural, civil, aeronautical, ocean, electrical and control systems.

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A classic, extensively studied nonlinear problem is the dynamics of a pendulum under the influence of gravity. Using Lagrangian mechanics, it may be shown that the motion of a pendulum can be described by the dimensionless nonlinear equation $\ddot{\theta} + \sin \theta = 0$ where gravity points "downwards" and θ is the angle the pendulum forms with its rest position, as shown in the figure at right.

Nonlinear system - Wikipedia

15 November 2018. 11th FDR Prize announced The 11th FDR Prize has been awarded to Saikat Basu, Ali Yawar, Andres Concha and M M Bandi for the article On angled bounce-off impact of a drop impinging on a flowing soap film published in volume 49 (December 2017) 065509. Read about this and the previous FDR prize winners on the FDR Prize page. 1 July 2018

Fluid Dynamics Research - IOPscience

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Summary: Chaos theory is a mathematical theory that can be used to explain complex systems such as weather, astronomy, politics, and economics. Although many complex systems appear to behave in a random manner, chaos theory shows that, in reality, there is an underlying order that is difficult to see.

Chaos Theory - Learning Theories

In chaos theory, the butterfly effect is the sensitive dependence on initial conditions in which a small change in one state of a deterministic nonlinear system can result in large differences in a later state.. The term, coined by Edward Lorenz, is derived from the metaphorical example of the details of a tornado (the exact

time of formation, the exact path taken) being influenced by minor ...

Butterfly effect - Wikipedia

Chaos, Solitons & Fractals has an open access mirror journal Chaos, Solitons & Fractals: X, sharing the same aims and scope, editorial team,...

Chaos, Solitons & Fractals - Journal - Elsevier

Finite difference/Hermite-Galerkin spectral method for multi-dimensional time-fractional nonlinear reaction-diffusion equation in unbounded domains

Applied Mathematical Modelling | ScienceDirect.com

Half a century ago, the pioneers of chaos theory discovered that the "butterfly effect" makes long-term prediction impossible. Even the smallest perturbation to a complex system (like the weather, the economy or just about anything else) can touch off a concatenation of events that leads to a dramatically divergent future.

Machine Learning's Amazing Ability to Predict Chaos

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Library of Congress Cataloging-in-Publication Data Haykin, Simon Neural networks and learning machines / Simon Haykin. 3rd ed. p. cm. Rev. ed of: Neural networks. 2nd ed., 1999.

Neural Networks and Learning Machines - etsmtl.ca

Vol.7, No.3, May, 2004. Mathematical and Natural Sciences. Study on Bilinear Scheme and Application to Three-dimensional Convective Equation (Itaru Hataue and Yosuke Matsuda)

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