dynamical system synchronization pdf
Dynamical Systems in Neuroscience: The Geometry of Excitability and Bursting Eugene M. Izhikevich The MIT Press Cambridge, Massachusetts London, England

Dynamical Systems in Neuroscience
Abstract: We consider an attraction-repulsion chemotaxis model coupled with the Navier-Stokes system. This model describes the interaction between a type of cells (e.g., bacteria), which proliferate following a logistic law, and two chemical signals produced by the cells themselves that degraded at a constant rate.

American Institute of Mathematical Sciences
Abstract: S-systems are simple examples of power-law dynamical systems (polynomial systems with real exponents). For planar S-systems, we study global stability of the unique positive equilibrium and solve the center problem.

American Institute of Mathematical 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
The Kuramoto model: a simple paradigm for synchronization phenomena Juan A. AcebrÂ´onâˆ— Dipartimento di Ingegneria dellâ€™ Informazione, Universita di Padova, Via Gradenigo,

The Kuramoto model: a simple paradigm for synchronization
A complex system is a system composed of many components which may interact with each other. Examples of complex systems are Earth's global climate, organisms, the human brain, infrastructure such as power grid, transportation or communication systems, social and economic organizations (like cities), an ecosystem, a living cell, and ultimately the entire universe.

Complex system - Wikipedia
The term â€œtipping pointâ€• commonly refers to a critical threshold at which a tiny perturbation can qualitatively alter the state or development of a system. Here we introduce the term â€œtipping elementâ€• to describe large-scale components of the Earth system that may pass a tipping point. We critically evaluate potential policy-relevant tipping elements in the climate system under ...

Tipping elements in the Earth's climate system | PNAS
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
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References - Northwestern University

IJCAS, International Journal of Control, Automation, and Systems

IJCAS ::::: International Journal of Control, Automation

Research Interests Small Reaction Systems - Effects of Fluctuations and Molecular Discreteness. In biochemical systems, there are lots of chemical species, but the total amount per cell is not large; i.e., some chemicals are rare (*).

TOGASHI Yuichi - Research

We propose a protocol for quantum state tomography of nonclassical states in optomechanical systems. Using a parametric drive, the procedure overcomes the challenges of weak optomechanical coupling, poor detection efficiency, and thermal noise to enable high efficiency homodyne measurement.

Quantum Physics authors/titles "new" - arXiv

[Farabet et al. 2013]: Learning Hierarchical Features for Scene Labeling, scheduled to appear in the special issue on deep learning of IEEE Trans. on Pattern Analysis and Machine Intelligence.The task is to label all the pixels in an image with the category of the object it belongs to. This is sometimes called scene labeling, scene parsing, or semantic segmentation.

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