

### **dynamical systems and applications pdf**

Dynamical systems theory is an area of mathematics used to describe the behavior of the complex dynamical systems, usually by employing differential equations or difference equations. When differential equations are employed, the theory is called continuous dynamical systems. From a physical point of view, continuous dynamical systems is a generalization of classical mechanics, a generalization ...

### **Dynamical systems theory - Wikipedia**

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### **Mathematical and Computer Modelling of Dynamical Systems**

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**

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The Journal of Mathematical Analysis and Applications presents papers that treat mathematical analysis and its numerous applications. The journal emphasizes articles devoted to the mathematical treatment of questions arising in physics, chemistry, biology, and engineering, particularly those that stress analytical aspects and novel problems and their solutions.

### **Journal of Mathematical Analysis and Applications**

IJCAS, International Journal of Control, Automation, and Systems

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

Utilizing the tools of quantum optics to prepare and manipulate quantum states of motion of a mechanical resonator is currently one of the most promising routes to explore nonâ€™classicality at a macroscopic scale.

### **Annalen der Physik: Vol 527, No 1-2 - onlinelibrary.wiley.com**

Acta Mathematicae Applicatae Sinica (English Series) is a quarterly journal established by the Chinese

Mathematical Society. The journal publishes high quality research papers from all branches of applied mathematics, including partial differential equations, computational mathematics, applied probability, mathematical finance, statistics, dynamical systems, and optimization and management ...

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### **IEEE Transactions on Neural Networks and Learning Systems**

H. Soh, Y. Baek, M. Ha and H. Jeong, "Effects of a local defect on one-dimensional nonlinear surface growth" Phys. Rev. E 95 042123 (2017) [] ; K. Chung, Y. Baek, M. Ha, and H. Jeong "Universality class of generalized epidemic process on random networks" Phys. Rev. E 93 052304 (2016) [] ; B. Lee, D. Kim, D. Kim, and H. Jeong "N-gram Web Service and Stylometric Analysis on Korean Historical ...

### **Complex Systems and Statistical Physics Lab. Hawoong Jeong**

Mathematical and Computational Applications (ISSN 2297-8747; ISSN 1300-686X for printed edition) is an international peer-reviewed open access journal on the applications of the mathematical and/or computational techniques published quarterly online by MDPI from Volume 21 Issue 1 (2016).. Open Access - free for readers, with article processing charges (APC) paid by authors or their institutions.

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