

discrete dynamical systems and 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

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: In this paper, we are concerned with the fractional order equations (1) with Hartree type $\dot{H}^{\frac{1\pm}{2}}$ -critical nonlinearity and its equivalent integral equations (3). We first prove a regularity result which indicates that weak solutions are smooth (Theorem 1.2).

American Institute of Mathematical Sciences

Dynamical systems theory has emerged in the movement sciences as a viable framework for modeling athletic performance. From a dynamical systems perspective, the human movement system is a highly intricate network of co-dependent sub-systems (e.g. respiratory, circulatory, nervous, skeletomuscular, perceptual) that are composed of a large number of interacting components (e.g. blood cells ...

DYNAMICAL SYSTEMS THEORY: a Relevant Framework for

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Discrete mathematics is the study of mathematical structures that are fundamentally discrete rather than continuous. In contrast to real numbers that have the property of varying "smoothly", the objects studied in discrete mathematics \hat{e} such as integers, graphs, and statements in logic \hat{e} do not vary smoothly in this way, but have distinct, separated values.

Discrete mathematics - Wikipedia

IJCAS, International Journal of Control, Automation, and Systems. Issues in 2018: Vol. 16, No. 6, December 2018: Vol. 16, No. 5, October 2018

IJCAS :::: International Journal of Control, Automation

IEEE Transactions on Neural Networks and Learning Systems publishes technical articles that deal with the theory, design, and applications of neural networks and related learning systems.

IEEE Transactions on Neural Networks and Learning Systems

The Table of Contents lists the main sections of the Mathematics Subject Classification. Under each heading may be found some links to electronic journals, preprints, Web sites and pages, databases and other pertinent material.

Mathematics by Classifications - mathontheweb.org

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