Discrete Iterated Function Systems

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Discrete iterated function systems (Book, 1993) [WorldCat.org]
Discrete Iterated Function Systems - CRC Press Book Written for researchers and developers applying Integrated Function Systems in the creation of fractal images, this book presents a modification of a widely used probabilistic algorithm for generating IFS-encoded images.

Discrete Iterated Function Systems - CRC Press Book
Abstract: Two iterated function system (IFS) models are explored for the representation of single-valued discrete-time sequences: the self-affine fractal model and the piecewise self-affine fractal model. Algorithms are presented, one of which is suitable for a multiprocessor implementation, for identification of the parameters of each model.

Using iterated function systems to model discrete ...
Higher dimensions. If the snapshot at time consists of two variables and , the discrete dynamical system may have the form f g where the functions and determine how the two components evolve through the two-dimensional state space together.

Discrete dynamical systems as function iteration - Math ...
In the language of discrete dynamical systems, 153 is the global attractor for the iterated map f restricted to the set 3N. For example: take the number 108 f(108) = 1**3 + 0**3 + 8**3 = 513 and f(513) = 5**3 + 1**3 + 3**3 = 153 So, starting at 108 we reach 153 in two iterations, represented as: 108->513->153 Computing all orbits of 3N up to 10**5 reveals that the attractor 153 is reached in a maximum of 14 iterations.

Iterated Dynamical Systems — NetworkX 1.10 documentation
Fractals can be formed using Iterated Function Systems. To begin thinking about the topic, let us consider the Cantor Set. The Cantor Set is formed using the following algorithm: Begin with the set [0,1]. Divide the existing segments into thirds. Remove the middle third. Go to step #2.

Iterated Function Systems
The main theorem of this paper establishes conditions under which the ‘chaos game’ algorithm almost surely yields the attractor of an iterated function system. The theorem holds in a very general setting, even for non-contractive iterated function systems, and under weaker conditions on the random orbit of the chaos game than obtained previously.

The chaos game on a general iterated function system ...
List of chaotic maps. Discrete maps usually take the form of iterated functions. Chaotic maps often occur in the study of dynamical systems . Chaotic maps often generate fractals. Although a fractal may be constructed by an iterative procedure, some fractals are studied in and of themselves, as sets rather than in terms of the map...

List of chaotic maps - Wikipedia
In mathematics, iterated function systems (IFSs) are a method of constructing fractals; the resulting fractals are often self-similar.IFS fractals are more related to set theory than fractal geometry. They were introduced in 1981. IFS fractals, as they are normally called, can be of any number of dimensions, but are commonly computed and drawn in 2D. . The fractal is made up of the union of ...

Iterated function system - Wikipedia
Cellular automata. A dynamical system with a deterministic rule, discrete time and discrete state space is a cellular automata. The evolution rule assigns a new state to a cell as a function of the old state of this cell and finitely many of its neighbors. The (relative) rule is the same for each cell.

Dynamical systems - Scholarpedia
APA. Peruggia, M. (1993). Discrete iterated function systems.Wellesley, Mass: A.K. Peters. MLA. Peruggia, Mario. Discrete Iterated Function Systems.

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The Boundary of Periodic Iterated Function Systems. This Demonstration shows approximations of the boundary (clockwise) of some discrete families of iterated functional systems (IFS), , which can be thought of as the fractional part of numeration systems with a complex base, . Change and to choose one of the periodic cases.

The Boundary of Periodic Iterated Function Systems ...
We define a discrete orthogonal projection onto this space and replace the Urysohn integral operator by a Nyström approximation. The order of convergence which we obtain for the discrete version indicates the choice of numerical quadrature which preserves the order of convergence in the continuous iterated modified projection method.

Discrete Iterated Modified Projection Method for Urysohn ...
continuous dependence of attractors on parameters of non-autonomous dynamical systems and infinite iterated function systems david cheban and cristiana mammana abstract. The paper is dedicated to the study of the problem of continuous dependence of compact global attractors on parameters of non-autonomous dynamical systems and in nite iterated ...

Continuous dependence of attractors on parameters of non ...
probability and fourier duality for affine iterated function systems dorin ervin dutkay and palle e.t. jorgensen arxiv:0808.2946v2 [math.fa] 14 nov 2008 abstract. Let d be a positive integer, and let μ be a finite measure on Rd .

(PDF) Probability and Fourier Duality for Affine Iterated ...
Discrete Comput Geom (2014) 51:729–752 DOI 10.1007/s00454-014-9589-2 Fractal Tilings from Iterated Function Systems Michael Barnsley · Andrew Vince · Andrew Vince

Fractal Tilings from Iterated Function Systems - Springer
In the language of discrete dynamical systems, 153 is the global attractor for the iterated map f restricted to the set 3N. For example: take the number 108 f(108) = 1**3 + 0**3 + 8**3 = 513

Iterated Dynamical Systems — NetworkX 2.2 documentation
This term is used in contrast to stochastic systems, which incorporate randomness in their rules. We will cover stochastic systems in the next chapter. Types of dynamical systems. The types of deterministic dynamical systems we will consider here are: Discrete-time dynamical systems (iterated functions) Cellular automata

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