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class of spatially and temporally discrete mathematical systems characterized by local interaction and synchronous dynamical evolution. Introduced by the mathematician John von Neumann in the 1950s as simple models of biological self-reproduction, they are prototypical models for complex systems and processes consisting of a large number of simple,

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homogeneous, locally

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Andrew Ilachinski World Scientific London, New Jersey, Singapore 2002

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Cellular Automata - A Discrete Universe | Emerald Insight

Cellular Automata A Discrete Universe by Andrew Ilachinski
Singapore: World Scientific, 2001 [This review was jointly written with Cris

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Moore, and appeared in the Bulletin of the London Mathematical Society, vol. 35, no. 2 (March 2003), pp. 282--284. I have added a few links.

Andrew Ilachinski, Cellular Automata: A Discrete Universe

Citation: Moore, Cristopher; Shalizi, Cosma (2003).

"Cellular Automata: A Discrete Universe."

Bulletin of the London

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Mathematical Society
35(2): 282-284.

Cellular Automata: A Discrete Universe

A cellular automaton (pl. cellular automata, abbrev.CA) is a discrete model of computation studied in automata theory. Cellular automata are also called cellular spaces, tessellation automata, homogeneous structures, cellular

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structures, tessellation structures, and iterative arrays.

Cellular automata have found application in various areas, including physics, theoretical biology and ...

Cellular automaton - Wikipedia

The Universe as a Cellular Automaton
maandag 9 april 2012.
Cellular automata. A brief introduction. ...

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First of all a cellular automaton is a discrete dynamic model that has a spatial and a temporal part. The spatial part is formed by the cells of the automata.

The Universe as a Cellular Automaton

3 2. The Cellular Automaton Proposals of digital physics reject the very notion of the continuum and claim that current continuous

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theories are approximations of a true discrete theory of a finite world. Typically such models consist of a regular “lattice” of cells with finite state information at

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Introduction Cellular automata (CA) are among the oldest models of natural computing, dating back over half a century.

The first CA studies by John von Neumann in the late 1940s were biologically motivated [10,69]: ... he envisioned a discrete universe consisting of a two-dimensional mesh

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of finite state machines, called cells, ...

Theory of cellular automata: A survey - ScienceDirect

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This last property leads
physicians or biologists
to use cellular
automata to model real
phenomena with the

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goal of predicting evolution. However, the physical universe is usually seen as a three-dimensional continuous and isotropic space through the classical Euclidean metric. By using cellular automata, a discrete universe is considered.

GENERATING ISOTROPIC DISCRETE WAVES ON CELLULAR AUTOMATA

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Andrew ...

It has remained the focus of much debate surrounding the significance of cellular automata. One key difference between cellular automata and the universe is that the former are discontinuous in ...

It From Bit: Is The Universe A Cellular Automaton?

A cellular automaton universe, on the other

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hand, is inherently parallel and often massively so. Each individual cell must make identical computations based only on its local context. The utility of CA systems led to several projects for dedicated CA processors, much like modern interest in deep learning has motivated the development of numerous neural

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dedicated accelerators.

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