

Cellular Automata A Discrete Universe

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Cellular Automata A Discrete Universe

Cellular automata are a 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, homogeneous, locally interacting components.

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Cellular automata are a class of spatially and temporally discrete mathematical systems that are characterised by local interaction and synchronous dynamical evolution. Readers will know that the concepts were introduced by John von Neumann in the 1950s as simple models of self-reproduction.

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Cellular Automata

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 structures, tessellation structures, and iterative arrays.

Cellular automaton - Wikipedia

One of the most fundamental properties of a cellular automaton is a type of grid on which it is calculated or computed. The simplest grid is a one-dimensional line. In two dimensions, square, triangular and hexagonal grids can be considered.

On Discrete Physics (Digital Philosophy/Digital Cosmology ...

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

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Andrew Ilachinski, Cellular Automata: A Discrete Universe

A cellular automaton is a deterministic rewriting and discrete dynamical system evolving on discrete-time and discrete space. It consists of a grid of cells that are locally but synchronously updated across the grid according to a global time scale and a global recursive rule governing the evolution of the state of each cell according to the state of the neighboring cells in discrete steps.

Cellular automata - Scholarpedia

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Ilachinski_A._Cellular_automata._A_discrete_universe ...

One key difference between cellular automata and the universe is that the former are discontinuous in both space and time. Spatially, that means they are pixelated, like the small-scale appearance...

It From Bit: Is The Universe A Cellular Automaton?

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Bulletin of the London Mathematical Society 35(2): 282-284.

Cellular Automata: A Discrete Universe

Cellular automata are those two dimensional blocklike structures that appear in Conway's Game of Life and, based on simple rules, can create some amazingly complex structures.

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