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Of Physical

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environments are too static.

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The sorts of things that move in games are restricted to either small, discrete objects such as vehicles and people, or sometimes some larger, mechanical or pre-scripted objects.

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Cellular automata offer a powerful modeling framework to describe and study physical systems composed of interacting components.

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used in many different

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Physical Systems disciplines and are capable of exhibiting many different types of physical, biological, or information-theoretic behaviors.

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Modeling of Physical Systems
Cellular automata turn out to be a very fruitful approach to address many scientific problems by providing an efficient way to model and simulate specific phenomena for which

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more traditional computational techniques are hardly applicable.

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Cellular automata (CA) models are defined to be discrete spatially extended dynamical systems to study physical systems [26]. They evolve the computational devices in discrete space and time. A CA is

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Physical Systems
initialized with one state with all 0's and a single 1 at different locations. It can generate some fixed unique patterns.

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overview | ScienceDirect
Topics

Cellular automata are fully discrete dynamical systems with dynamical variables defined at the nodes of a lattice and taking values in a finite set. Application of

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Physical Systems
a local transition rule at each lattice site generates the dynamics. The interpretation of systems with a large number of degrees of

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Cellular Automata and
Modeling of Complex Physical
Systems ...

Specific types of cellular automata include: Brian's Brain. Codd's cellular automaton. CoDi. Langton's ant. Langton's loops. Nobili

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cellular automata. Rule 90.
Rule 184. von Neumann
cellular automata.
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A Cellular Automata Approach for the Modeling of a ...
Abstract In the present work we introduce a stochastic cellular automata model in order to simulate the

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dynamics of the stock market. A direct percolation method is used to create a hierarchy of clusters of active traders on a two-dimensional grid.

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Stochastic cellular automata model for stock market dynamics

As a preferable modelling approach, the cellular automaton (CA) has been used to simulate the complex mechanisms of fire

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Physical Systems. However, in traditional CA models, comprehensive studies on the...

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A quantum cellular automaton is an abstract model of quantum computation, devised in analogy to conventional models of cellular automata introduced by John von Neumann. The same name may

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Physical Systems
also refer to quantum dot cellular automata, which are a proposed physical implementation of "classical" cellular automata by exploiting quantum mechanical phenomena. QCA have

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Physical Systems attracted a lot of attention as a result of its extremely small feature size and its ultra-low power consumption, making it one candidate

Quantum cellular automaton -

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Cellular automata (CA) are a set of such automata arranged along a regular spatial grid, whose states are simultaneously updated by a uniformly applied state-transition function that

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refers to the states of their neighbors.

11.1: Definition of Cellular Automata - Mathematics
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Unlike other kinds of

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Physical Systems, cellular automata model (i.e. CA model) is not defined by a fixed physical formula or function but set by a series of rules. According to certain local rules, CA model is a dynamical system

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Physical Systems defined in a discrete space consisting of cells with limited states.

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Modeling Chemical Systems
Using Cellular Automata: A

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When researchers design reversible cellular automata to simulate physical systems, they typically incorporate into the design the conservation laws of the system; for instance, a

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Physical Systems
cellular automaton that simulates an ideal gas should conserve the number of gas particles and their total momentum, for otherwise it would not provide an accurate simulation. However, there

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Physical Systems has also been some research on the conservation laws that reversible cellular automata can have, independent of any ...

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