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Cellular Automaton Modeling of Biological Pattern Formation

This book focuses on a challenging application field of cellular automata: pattern formation in biological systems, such as the growth of microorganisms, dynamics of cellular tissue and tumors, and formation of pigment cell patterns.

Cellular Automaton Modeling of Biological Pattern Formation

This text explores the use of cellular automata in modeling pattern formation in biological systems. It describes several mathematical modeling approaches utilizing cellular automata that can be used to study the dynamics of interacting cell systems both in simulation and in practice.

Cellular Automaton Modeling of Biological Pattern Formation

This book focuses on a challenging application field of cellular automata: pattern formation in biological systems, such as the growth of microorganisms, dynamics of cellular tissue and tumors, and formation of pigment cell patterns. These phenomena, resulting from complex cellular interactions

Cellular Automaton Modeling of Biological Pattern Formation

After an introduction to pattern formation in general, this book develops thecellular automaton approach and showshow, undercertain conditions, one can take the continuum limit, leading to the classical partial

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Cellular Automaton Modeling of Biological Pattern Formation

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Cellular Automata, PDEs, and Pattern Formation - arXiv

popular cellular automata such as Conway s Game of Life, and in the cellular automaton implementation of partial differential equations. The dynamics and complexity of cellular automata are extremely rich.

Cellular Automaton Modeling of Biological Pattern ...

The book begins with an introduction to pattern-forming principles in biology and the various mathematical modeling techniques that can be used to analyze them. In the final chapter, the authors critically discuss possibilities and limitations of the cellular automaton approach in modeling various biological applications, along with future

Cellular Automaton Modeling of Biological Pattern Formation

Cellular automaton models are then discussed in detail for different types of cellular processes and interactions, including random movement, cell migration, adhesive cell interaction, alignment and cellular swarming, growth processes, pigment cell pattern formation, tissue development, tumor growth and invasion, and Turing-type patterns and excitable media. In the final chapter, the authors critically discuss possibilities and limitations of the cellular automaton approach in modeling

Cellular Automaton Modeling of Biological Pattern Formation:

Specification of a two-dimensional lattice-gas cellular automaton describing population growth. (A) Each site contains five channels consisting of four movement directions and one channel for