

<<Machines, Computatio>>

图书基本信息

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作者：Margenstern, Maurice

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### 内容概要

This book constitutes the thoroughly refereed postproceedings of the 4th International Conference on Machines, Computations, and Universality, MCU 2004, held in St. Petersburg, Russia in September 2004. The 21 revised full papers presented together with 5 invited papers went through two rounds of reviewing, selection, and improvement. A broad variety of foundational aspects in theoretical computer science are addressed, such as cellular automata, molecular computing, quantum computing, formal languages, automata theory, Turing machines, P systems, etc.

## 书籍目录

Invited Lectures Algorithmic Randomness, Quantum Physics, and Incompleteness On the Complexity of Universal Programs Finite Sets of Words and Computing Universality and Cellular Automata Leaf Language Classes Selected Contributions Computational Completeness of P Systems with Active Membranes and Two Polarizations Computing with a Distributed Reaction-Diffusion Model Computational Universality in Symbolic Dynamical Systems Real Recursive Functions and Real Extensions of Recursive Functions Ordering and Convex Polyominoes Subshifts Behavior of Cellular Automata. Topological Properties and Related Languages Evolution and Observation: A Non-standard Way to Accept Formal Languages The Computational Power of Continuous Dynamic Systems Abstract Geometrical Computation for Black Hole Computation Is Bosco's Rule Universal? Sequential P Systems with Unit Rules and Energy Assigned to Membranes Hierarchies of DLOGTIME-Uniform Circuits Several New Generalized Linear- and Optimum-Time Synchronization Algorithms for Two-Dimensional Rectangular Arrays Register Complexity of LOOP-, WHILE-, and GOT0-Programs Classification and Universality of Reversible Logic Elements with One-Bit Memory Universal Families of Reversible P Systems Solving 3CNF-SAT and HPP in Linear Time Using WWW Completing a Code in a Regular Submonoid of the Free Monoid On Computational Universality in Language Equations Attacking the Common Algorithmic Problem by Recognizer P Systems On the Minimal Automaton of the Shuffle of Words and Araucarias Author Index

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