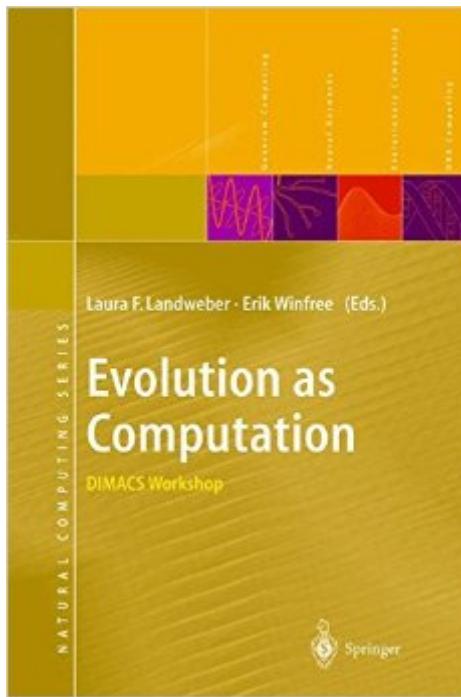


The book was found

# Evolution As Computation



## Synopsis

The study of the genetic basis for evolution has flourished in this century, as well as our understanding of the evolvability and programmability of biological systems. Genetic algorithms meanwhile grew out of the realization that a computer program could use the biologically-inspired processes of mutation, recombination, and selection to solve hard optimization problems. Genetic and evolutionary programming provide further approaches to a wide variety of computational problems. A synthesis of these experiences reveals fundamental insights into both the computational nature of biological evolution and processes of importance to computer science. Topics include biological models of nucleic acid information processing and genome evolution; molecules, cells, and metabolic circuits that compute logical relationships; the origin and evolution of the genetic code; and the interface with genetic algorithms and genetic and evolutionary programming.

## Book Information

Series: Natural Computing Series

Hardcover: 300 pages

Publisher: Springer; 2002 edition (January 17, 2003)

Language: English

ISBN-10: 3540667091

ISBN-13: 978-3540667094

Product Dimensions: 6.4 x 0.8 x 9.5 inches

Shipping Weight: 1.6 pounds (View shipping rates and policies)

Average Customer Review: Be the first to review this item

Best Sellers Rank: #4,070,058 in Books (See Top 100 in Books) #78 in Books > Computers & Technology > Programming > Algorithms > Genetic #680 in Books > Science & Math > Mathematics > Popular & Elementary > Counting & Numeration #851 in Books > Computers & Technology > Computer Science > AI & Machine Learning > Computer Vision & Pattern Recognition

[Download to continue reading...](#)

Evolution as Computation axiom(TM): The Scientific Computation System Boosting: Foundations and Algorithms (Adaptive Computation and Machine Learning series) The Design of Innovation: Lessons from and for Competent Genetic Algorithms (Genetic Algorithms and Evolutionary Computation) Practical Rendering and Computation with Direct3D 11 Modern Fortran Explained

(Numerical Mathematics and Scientific Computation) 4th (Fourth) Edition Generalized Quantifiers and Computation: 9th European Summer School in Logic, Language, and Information, ESSLLI'97 Workshop, Aix-en-Provence, France, ... Lectures (Lecture Notes in Computer Science) Common LISP: A Gentle Introduction to Symbolic Computation (Dover Books on Engineering) Thinking as Computation: A First Course (MIT Press) Thinking as Computation: A First Course (Hardback) - Common Structured Parallel Programming: Patterns for Efficient Computation Using OpenMP: Portable Shared Memory Parallel Programming (Scientific and Engineering Computation) Using MPI - 2nd Edition: Portable Parallel Programming with the Message Passing Interface (Scientific and Engineering Computation) Using Advanced MPI: Modern Features of the Message-Passing Interface (Scientific and Engineering Computation) Using MPI-2: Advanced Features of the Message Passing Interface (Scientific and Engineering Computation) Introduction to Statistical Relational Learning (Adaptive Computation and Machine Learning series) Fortran 95/2003 Explained (Numerical Mathematics and Scientific Computation) Number Talks: Helping Children Build Mental Math and Computation Strategies, Grades K-5, Updated with Common Core Connections Large Eddy Simulation for Compressible Flows (Scientific Computation) Computational Design Thinking: Computation Design Thinking

[Dmca](#)