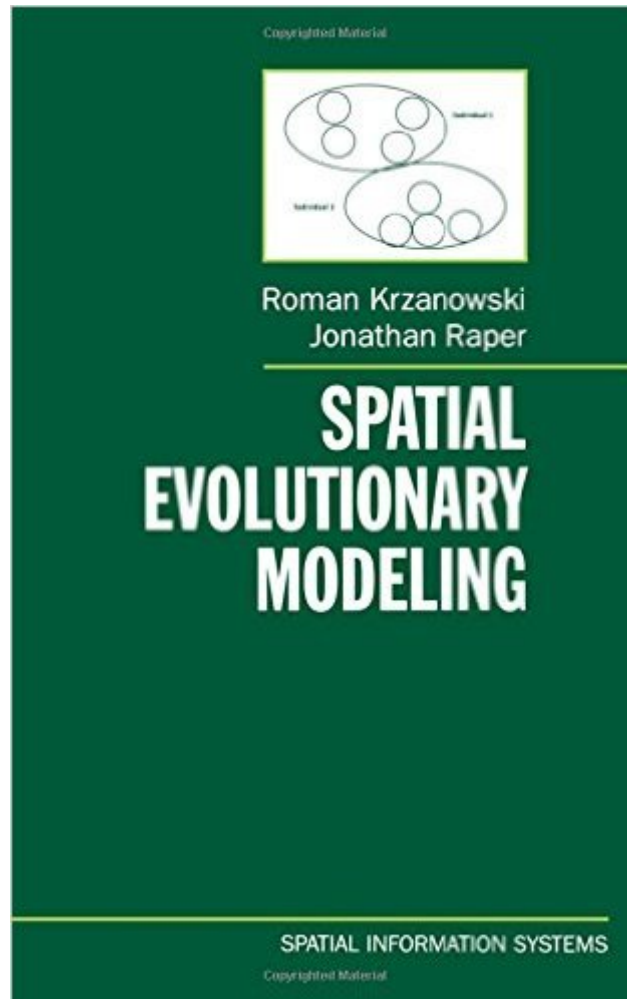# Spatial Evolutionary Modeling (Spatial Information Systems)

Synopsis

Evolutionary models (e.g., genetic algorithms, artificial life), explored in other fields for the past two decades, are now emerging as an important new tool in GIS for a number of reasons. First, they are highly appropriate for modeling geographic phenomena. Secondly, geographical problems are often spatially separate (broken down into local or regional problems) and evolutionary algorithms can exploit this structure. Finally, the ability to store, manipulate, and visualize spatial data has increased to the point that space-time-attribute databases can be easily handled.

Book Information

Series: Spatial Information Systems

Hardcover: 244 pages

Publisher: Oxford University Press; 1st edition (August 2, 2001)

Language: English

ISBN-10: 0195135687

ISBN-13: 978-0195135688

Product Dimensions: 9.1 x 0.8 x 6.1 inches

Shipping Weight: 1.2 pounds (View shipping rates and policies)

Average Customer Review: Be the first to review this item

Best Sellers Rank: #4,802,050 in Books (See Top 100 in Books)   #98 in Books > Computers & Technology > Programming > Algorithms > Genetic   #510 in Books > Computers & Technology > Programming > Graphics & Multimedia > GIS   #695 in Books > Computers & Technology > Computer Science > AI & Machine Learning > Machine Theory

Spatial Evolutionary Modeling (Spatial Information Systems) Value of Information in the Earth Sciences: Integrating Spatial Modeling and Decision Analysis Evolutionary Algorithms for Solving Multi-Objective Problems (Genetic and Evolutionary Computation) Evolutionary Algorithms in Theory and Practice: Evolution Strategies, Evolutionary Programming, Genetic Algorithms Spatial Reasoning Tests - The Ultimate Guide to Passing Spatial Reasoning Tests (Testing Series) Ecocriticism and Geocriticism: Overlapping Territories in Environmental and Spatial Literary Studies (Geocriticism and Spatial Literary Studies) Spatial Temporal Information Systems: An Ontological Approach using STKÂ® Design Research in Information Systems: Theory and Practice: 22 (Integrated Series in Information Systems) Fundamentals Of Information Systems Security (Information Systems Security & Assurance) Introduction to the Numerical Modeling of Groundwater

and Geothermal Systems: Fundamentals of Mass, Energy and Solute Transport in Poroelastic Rocks (Multiphysics Modeling) Geochemical Modeling of Groundwater, Vadose and Geothermal Systems (Multiphysics Modeling) Language Modeling for Information Retrieval (The Information Retrieval Series) Location Theory and Decision Analysis: Analytics of Spatial Information Technology Evolutionary Electronics: Automatic Design of Electronic Circuits and Systems by Genetic Algorithms (International Series on Computational Intelligence) Signaling at the Cell Surface in the Circulatory and Ventilatory Systems (Biomathematical and Biomechanical Modeling of the Circulatory and Ventilatory Systems, Vol. 3) Introductory Geographic Information Systems (Prentice Hall Series in Geographic Information Science) Health Information Exchange: Navigating and Managing a Network of Health Information Systems Research Methods for Students, Academics and Professionals, Second Edition: Information Management and Systems (Topics in Australasian Library and Information Studies) Getting Started with Geographic Information Systems (5th Edition) (Pearson Prentice Hall Series in Geographic Information Scien) Microsoft Excel 2013 Data Analysis and Business Modeling: Data Analysis and Business Modeling (Introducing)