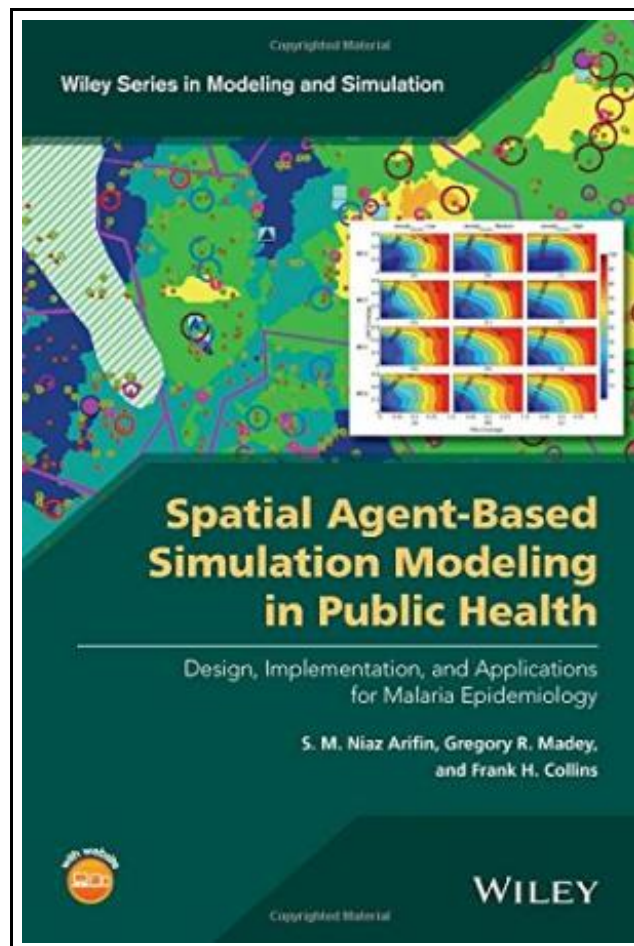


A Spatial Agent-Based Simulation Modeling in Public Health: Design, Implementation, and Applications for Malaria Epidemiology (Hardback)



Filesize: 3.08 MB

Reviews

This publication is definitely worth purchasing. it was actually writtern really completely and beneficial. Your life span will likely be change once you total reading this article pdf.
(Dell Hegmann Jr.)

A SPATIAL AGENT-BASED SIMULATION MODELING IN PUBLIC HEALTH: DESIGN, IMPLEMENTATION, AND APPLICATIONS FOR MALARIA EPIDEMIOLOGY (HARDBACK)

[DOWNLOAD](#)

John Wiley Sons Inc, United States, 2016. Hardback. Book Condition: New. 236 x 162 mm. Language: English . Brand New Book. Presents an overview of the complex biological systems used within a global public health setting and features a focus on malaria analysis Bridging the gap between agent-based modeling and simulation (ABMS) and geographic information systems (GIS), Spatial Agent-Based Simulation Modeling in Public Health: Design, Implementation, and Applications for Malaria Epidemiology provides a useful introduction to the development of agent-based models (ABMs) by following a conceptual and biological core model of *Anopheles gambiae* for malaria epidemiology. Using spatial ABMs, the book includes mosquito (vector) control interventions and GIS as two example applications of ABMs, as well as a brief description of epidemiology modeling. In addition, the authors discuss how to most effectively integrate spatial ABMs with a GIS. The book concludes with a combination of knowledge from entomological, epidemiological, simulation-based, and geo-spatial domains in order to identify and analyze relationships between various transmission variables of the disease. Spatial Agent-Based Simulation Modeling in Public Health: Design, Implementation, and Applications for Malaria Epidemiology also features: * Location-specific mosquito abundance maps that play an important role in malaria control activities by guiding future resource allocation for malaria control and identifying hotspots for further investigation * Discussions on the best modeling practices in an effort to achieve improved efficacy, cost-effectiveness, ecological soundness, and sustainability of vector control for malaria * An overview of the various ABMs, GIS, and spatial statistical methods used in entomological and epidemiological studies, as well as the model malaria study * A companion website with computer source code and flowcharts of the spatial ABM and a landscape generator tool that can simulate landscapes with varying spatial heterogeneity of different types of resources including aquatic habitats and houses Spatial Agent-Based Simulation...



[Read A Spatial Agent-Based Simulation Modeling in Public Health: Design, Implementation, and Applications for Malaria Epidemiology \(Hardback\) Online](#)



[Download PDF A Spatial Agent-Based Simulation Modeling in Public Health: Design, Implementation, and Applications for Malaria Epidemiology \(Hardback\)](#)

See Also

**A Year Book for Primary Grades; Based on Froebel s Mother Plays (Paperback)**

Rarebooksclub.com, United States, 2012. Paperback. Book Condition: New. 246 x 189 mm. Language: English . Brand New Book ***** Print on Demand *****.This historic book may have numerous typos and missing text. Purchasers can download...

[Download ePub »](#)

**Design Collection Revealed: Adobe InDesign CS6, Photoshop CS6 Illustrator CS6 (Paperback)**

Cengage Learning, Inc, United States, 2012. Paperback. Book Condition: New. 236 x 190 mm. Language: English . Brand New Book. THE DESIGN COLLECTION REVEALED provides comprehensive step-by-step instruction and in-depth explanation for three of today...

[Download ePub »](#)

**Adobe Photoshop CS6 Revealed (Hardback)**

Cengage Learning, Inc, United States, 2012. Hardback. Book Condition: New. 236 x 193 mm. Language: English . Brand New Book. Adobe Photoshop has long provided cutting edge technology for sophisticated digital editing, and ADOBE PHOTOSHOP...

[Download ePub »](#)

**Crochet: Learn How to Make Money with Crochet and Create 10 Most Popular Crochet Patterns for Sale: (Learn to Read Crochet Patterns, Charts, and Graphs, Beginner s Crochet Guide with Pictures) (Paperback)**

Createspace, United States, 2015. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book ***** Print on Demand *****.Getting Your FREE Bonus Download this book, read it to the end and...

[Download ePub »](#)

**I Am Reading: Nurturing Young Children s Meaning Making and Joyful Engagement with Any Book (Paperback)**

Heinemann Educational Books, United States, 2015. Paperback. Book Condition: New. 234 x 185 mm. Language: English . Brand New Book. It s vital that we support young children s reading in ways that nurture healthy...

[Download ePub »](#)