



Managing Business Complexity: Discovering Strategic Solutions with Agent-Based Modeling and Simulation

By Michael J. North, Charles M. Macal

Download now

Read Online 

Managing Business Complexity: Discovering Strategic Solutions with Agent-Based Modeling and Simulation By Michael J. North, Charles M. Macal

Agent-based modeling and simulation (ABMS), a way to simulate a large number of choices by individual actors, is one of the most exciting practical developments in business modeling since the invention of relational databases. It represents a new way to understand data and generate information that has never been available before--a way for businesses to view the future and to understand and anticipate the likely effects of their decisions on their markets and industries. It thus promises to have far-reaching effects on the way that businesses in many areas use computers to support practical decision-making.

Managing Business Complexity is the first complete business-oriented agent-based modeling and simulation resource. It has three purposes: first, to teach readers how to think about ABMS, that is, about agents and their interactions; second, to teach readers how to explain the features and advantages of ABMS to other people and third, to teach readers how to actually implement ABMS by building agent-based simulations. It is intended to be a complete ABMS resource, accessible to readers who haven't had any previous experience in building agent-based simulations, or any other kinds of models, for that matter. It is also a collection of ABMS business applications resources, all assembled in one place for the first time. In short, *Managing Business Complexity* addresses who needs ABMS and why, where and when ABMS can be applied to the everyday business problems that surround us, and how specifically to build these powerful agent-based models.

 [Download Managing Business Complexity: Discovering Strategi ...pdf](#)

 [Read Online Managing Business Complexity: Discovering Strate ...pdf](#)

Managing Business Complexity: Discovering Strategic Solutions with Agent-Based Modeling and Simulation

By Michael J. North, Charles M. Macal

Managing Business Complexity: Discovering Strategic Solutions with Agent-Based Modeling and Simulation By Michael J. North, Charles M. Macal

Agent-based modeling and simulation (ABMS), a way to simulate a large number of choices by individual actors, is one of the most exciting practical developments in business modeling since the invention of relational databases. It represents a new way to understand data and generate information that has never been available before--a way for businesses to view the future and to understand and anticipate the likely effects of their decisions on their markets and industries. It thus promises to have far-reaching effects on the way that businesses in many areas use computers to support practical decision-making.

Managing Business Complexity is the first complete business-oriented agent-based modeling and simulation resource. It has three purposes: first, to teach readers how to think about ABMS, that is, about agents and their interactions; second, to teach readers how to explain the features and advantages of ABMS to other people and third, to teach readers how to actually implement ABMS by building agent-based simulations. It is intended to be a complete ABMS resource, accessible to readers who haven't had any previous experience in building agent-based simulations, or any other kinds of models, for that matter. It is also a collection of ABMS business applications resources, all assembled in one place for the first time. In short, *Managing Business Complexity* addresses who needs ABMS and why, where and when ABMS can be applied to the everyday business problems that surround us, and how specifically to build these powerful agent-based models.

Managing Business Complexity: Discovering Strategic Solutions with Agent-Based Modeling and Simulation By Michael J. North, Charles M. Macal Bibliography

- Sales Rank: #1388988 in Books
- Published on: 2007-03-01
- Original language: English
- Number of items: 1
- Dimensions: 6.90" h x 1.10" w x 10.10" l, 1.59 pounds
- Binding: Hardcover
- 328 pages

 [Download Managing Business Complexity: Discovering Strategi ...pdf](#)

 [Read Online Managing Business Complexity: Discovering Strate ...pdf](#)

Download and Read Free Online **Managing Business Complexity: Discovering Strategic Solutions with Agent-Based Modeling and Simulation** By **Michael J. North, Charles M. Macal**

Editorial Review

Review

"*Managing Business Complexity* is a thorough, practical, and easy-to-understand guide to effective agent-based modeling and simulation. It's a must read for anyone considering applications of agent-based modeling for solving real-world problems."--Vincent P. Roske, Jr., Former Deputy Director for Wargaming, Simulation, and Analysis, U.S. Department of Defense Joint Staff Force Structure, Resources, and Assessment Directorate

About the Author

Michael J. North, MBA, Ph.D., is the Deputy Director of the Center for Complex Adaptive Agent Systems Simulation within the Decision and Information Sciences Division of Argonne and the University of Chicago.

Charles M. Macal, Ph.D., P.E., is the Director of the Center for Complex Adaptive Agent Systems Simulation within the Decision and Information Sciences Division of Argonne National Laboratory

Users Review

From reader reviews:

Tara Gamboa:

A lot of people always spent their particular free time to vacation or maybe go to the outside with them family or their friend. Were you aware? Many a lot of people spent they free time just watching TV, or even playing video games all day long. In order to try to find a new activity honestly, that is look different you can read some sort of book. It is really fun to suit your needs. If you enjoy the book that you just read you can spent the whole day to reading a reserve. The book *Managing Business Complexity: Discovering Strategic Solutions with Agent-Based Modeling and Simulation* it is rather good to read. There are a lot of individuals who recommended this book. They were enjoying reading this book. When you did not have enough space to create this book you can buy the e-book. You can m0ore effortlessly to read this book from a smart phone. The price is not to fund but this book has high quality.

Roy Taylor:

Are you kind of occupied person, only have 10 as well as 15 minute in your moment to upgrading your mind talent or thinking skill actually analytical thinking? Then you have problem with the book in comparison with can satisfy your limited time to read it because this all time you only find book that need more time to be learn. *Managing Business Complexity: Discovering Strategic Solutions with Agent-Based Modeling and Simulation* can be your answer because it can be read by you who have those short time problems.

Josefina Roundtree:

Is it anyone who having spare time in that case spend it whole day simply by watching television programs or just resting on the bed? Do you need something totally new? This Managing Business Complexity: Discovering Strategic Solutions with Agent-Based Modeling and Simulation can be the solution, oh how comes? A fresh book you know. You are and so out of date, spending your extra time by reading in this brand new era is common not a nerd activity. So what these textbooks have than the others?

Sharon Works:

A lot of publication has printed but it differs. You can get it by world wide web on social media. You can choose the best book for you, science, amusing, novel, or whatever by searching from it. It is identified as of book Managing Business Complexity: Discovering Strategic Solutions with Agent-Based Modeling and Simulation. You can add your knowledge by it. Without making the printed book, it could add your knowledge and make anyone happier to read. It is most critical that, you must aware about reserve. It can bring you from one spot to other place.

**Download and Read Online Managing Business Complexity:
Discovering Strategic Solutions with Agent-Based Modeling and
Simulation By Michael J. North, Charles M. Macal
#47VLG0TFDCM**

Read Managing Business Complexity: Discovering Strategic Solutions with Agent-Based Modeling and Simulation By Michael J. North, Charles M. Macal for online ebook

Managing Business Complexity: Discovering Strategic Solutions with Agent-Based Modeling and Simulation By Michael J. North, Charles M. Macal Free PDF d0wnl0ad, audio books, books to read, good books to read, cheap books, good books, online books, books online, book reviews epub, read books online, books to read online, online library, greatbooks to read, PDF best books to read, top books to read Managing Business Complexity: Discovering Strategic Solutions with Agent-Based Modeling and Simulation By Michael J. North, Charles M. Macal books to read online.

Online Managing Business Complexity: Discovering Strategic Solutions with Agent-Based Modeling and Simulation By Michael J. North, Charles M. Macal ebook PDF download

Managing Business Complexity: Discovering Strategic Solutions with Agent-Based Modeling and Simulation By Michael J. North, Charles M. Macal Doc

Managing Business Complexity: Discovering Strategic Solutions with Agent-Based Modeling and Simulation By Michael J. North, Charles M. Macal Mobipocket

Managing Business Complexity: Discovering Strategic Solutions with Agent-Based Modeling and Simulation By Michael J. North, Charles M. Macal EPub