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Agent-Based and Individual-Based Modeling: A Practical ...

Agent-Based and Individual-Based Modeling has become the standard textbook on the subject for classroom use and self-instruction. Drawing on the latest version of NetLogo and fully updated with new examples, exercises, and an enhanced text for easier comprehension, this is the essential resource for anyone seeking to understand how the dynamics of biological, social, and other complex systems arise from the characteristics of the agents that make up these systems.

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Welcome to our textbook on scientific agent-based (or "individual-based") modeling of complex systems. The book is about designing models to solve specific problems of real systems, implementing models in Wilensky's NetLogo software (Wilensky, 1999), and analyzing models to develop theoretical understanding and predict system behaviors. Use the links above to learn about the book's objectives and content, download supporting materials, learn about the authors, get more information ...

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Agent Based And Individual Based Modeling A Practical ...

Agent-Based and Individual-Based Modeling: A Practical Introduction Simulation has been described as a "third way of doing science," midway between theoretical analysis and experimentation. Equation-based models are perhaps the oldest form of computer simulation.

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An agent-based model (ABM) is a class of computational models for simulating the actions and interactions of autonomous agents (both individual or collective entities such as organizations or groups) with a view to assessing their effects on the system as a whole. It combines elements of game theory, complex systems, emergence, computational sociology, multi-agent systems, and evolutionary ...

Agent-based model - Wikipedia

Individual-based models are also known as entity or agent based models, and as individual/entity/agent-based simulations. Some individual-based models are also spatially explicit meaning that the individuals are associated with a location in geometrical space. Some spatially explicit individual-based models also exhibit mobility, where the individuals can move around their environment. This would be a natural model, for example, of an animal in an ecological simulation.

Individual-Based Models

1 From Individual Fuzzy Cognitive Maps to Agent Based Models: Modelling Multi-Factorial and Multi-stakeholder Decision-Making for Water Scarcity Sara Mehryara,b*, Richard Sliuzasa, Nina Schwarza, Ali Sharifia, Martin van Maarseveena a ITC-Faculty of Geo-Information Science & Earth Observation, University of Twente, P.O. Box 217, 7500AE, Enschede, The Netherlands

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