

AGENT-BASED MODELS

Nigel Gilbert

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Nigel Gilbert



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Agent-Based Models Nigel Gilbert, 2008 Aimed at readers with minimal experience in computer programming this brief book provides a theoretical and methodological rationale for using ABM in the social sciences It goes on to describe some carefully chosen examples from different disciplines illustrating different approaches to ABM It concludes with practical advice about how to design and create ABM a discussion of validation procedures and some guidelines about publishing articles based on ABM

Agent-Based Models Nigel Gilbert, 2019-11-15 Agent based simulation has become increasingly popular as a modeling approach in the social sciences because it enables researchers to build models where individual entities and their interactions are directly represented The Second Edition of Nigel Gilbert's *Agent Based Models* introduces this technique considers a range of methodological and theoretical issues shows how to design an agent based model with a simple example offers some practical advice about developing verifying and validating agent based models and finally discusses how to plan an agent based modelling project publish the results and apply agent based modeling to formulate and evaluate social and economic policies

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Agent-Based Approaches in Economic and Social Complex Systems VIII Yutaka Nakai, Yuhsuke Koyama, Takao Terano, 2015-06-05 Agent based modeling simulation is an emergent approach to the analysis of social and economic systems It provides a bottom up experimental method to be applied to social sciences such as economics management sociology and politics as well as some engineering fields dealing with social activities This book includes selected papers presented at the Eighth International Workshop on Agent Based Approaches in Economic and Social Complex Systems held in Tokyo Japan in 2013 At the workshop 23 reviewed full papers were presented and of those 13 were selected to be included in this volume

Agent-Based Models of Geographical Systems Alison J. Heppenstall, Andrew T. Crooks, Linda M. See, Michael Batty, 2011-11-24 This unique book brings together a comprehensive set of papers on the background theory technical issues and applications of agent based modelling ABM within geographical systems This collection of papers is an invaluable reference point for the experienced agent based modeller as well those new to the area Specific geographical issues such as handling scale and space are dealt with as well as practical advice from leading experts

about designing and creating ABMs handling complexity visualising and validating model outputs With contributions from many of the world s leading research institutions the latest applied research micro and macro applications from around the globe exemplify what can be achieved in geographical context This book is relevant to researchers postgraduate and advanced undergraduate students and professionals in the areas of quantitative geography spatial analysis spatial modelling social simulation modelling and geographical information sciences

Agent-Based Simulation of Vulnerability Dynamics Cilli Sobiech, 2012-10-11 This thesis constitutes an extraordinary innovative research approach in transferring the concepts and methods of complex systems to risk research It ambitiously bridges the barriers between theoretical empirical and methodical research work and integrates these fields into one comprehensive approach of dealing with uncertainty in socio ecological systems The developed agent based simulation aims at the dynamics of social vulnerability in the considered system of the German North Sea Coast Thus the social simulation provides an analytical method to explore the individual relational and spatial aspects leading to dynamics of vulnerability in society Combining complexity science and risk research by the method of agent based simulation hereby emphasizes the importance of understanding interrelations inside the system for the system s development i e for the evolving Based on a vulnerability assessment regarding vulnerability characteristics present risk behavior and self protection preferences of private households against the impacts of flooding and storm surges possible system trajectories could be explored by means of simulation experiments The system analytical approach therefore contributes to an integrated consideration of multi dimensional and context sensitv social phenomena such as vulnerability Furthermore it achieves conceptually and strategically relevant implications for risk research and complex systems research

Agent-Based Modeling of Social Conflict Carlos M. Lemos, 2017-10-24 This Brief revisits and extends Epstein s classical agent based model of civil violence by considering important mechanisms suggested by social conflict theories Among them are relative deprivation as generator of hardship generalized vanishing of the risk perception massive fear loss when the uprisings surpass a certain threshold endogenous legitimacy feedback and network influence effects represented by the mechanism of dispositional contagion The model is explored in a set of computer experiments designed to provide insight on how mechanisms lead to increased complexity of the solutions The results of the simulations are compared with statistical analyses of estimated size duration and recurrence of large demonstrations and riots for eight African countries affected by the Arab Spring based on the Social Conflict Analysis Database It is shown that the extensions to Epstein s model proposed herein lead to increased generative capacity of the agent based model i e a richer set of meaningful qualitative behaviors as well the identification of key mechanisms and associated parameters with tipping points The use of quantitative information international indicators and statistical analyses of conflict events allows the assessment of the plausibility of input parameter values and simulated results and thus a better understanding of the model s strengths and limitations The contributions of the present work for understanding how mechanisms of large scale conflict lead to

complex behavior include a new form of the estimated arrest probability a simple representation of political vs economic deprivation with a parameter which controls the sensitivity to value endogenous legitimacy feedback and the effect of network influences due to small groups and activists In addition the analysis of the Social Conflict Analysis Database provided a quantitative description of the impact of the Arab Spring in several countries focused on complexity issues such as peaceful vs violent spontaneous vs organized and patterns of size duration and recurrence of conflict events in this recent and important large scale conflict process This book will appeal to students and researchers working in these computational social science subfields **Applied Computational Mathematics in Social Sciences** Romulus-Catalin Damaceanu, 2010

Applied Computational Mathematics in Social Sciences adopts a modern scientific approach that combines knowledge from mathematical modeling with various aspects of social science Special algorithms can be created to simulate an artificial society and a detailed analysis can subsequently be used to project social realities This Ebook specifically deals with computations using the NetLogo platform and is intended for researchers interested in advanced human geography and mathematical modeling studies Agent-Based Models Nigel Gilbert, 2007-09-14 Agent based modeling ABM is a technique increasingly used in a broad range of social sciences It involves building a computational model consisting of agents each of which represents an actor in the social world and an environment in which the agents act Agents are able to interact with each other and are programmed to be pro active autonomous and able to perceive their virtual world The techniques of ABM are derived from artificial intelligence and computer science but are now being developed independently in research centers throughout the world In Agent Based Models Nigel Gilbert reviews a range of examples of agent based modeling describes how to design and build your own models and considers practical issues such as verification validation planning a modeling project and how to structure a scholarly article reporting the results of agent based modeling It includes a glossary an annotated list of resources advice on which programming environment to use when creating agent based models and a worked step by step example of the development of an ABM This latest volume in the SAGE Quantitative Applications in the Social Sciences series will have wide appeal in the social sciences including the disciplines of sociology economics social psychology geography economic history science studies and environmental studies It is appropriate for graduate students researchers and academics in these fields for both those wanting to keep up with new developments in their fields and those who are considering using ABM for their research Key Features Aimed at readers who are new to ABM Offers a brief but thorough treatment of a cutting edge technique Offers practical advice about how to design and create ABM Includes carefully chosen examples from different disciplines Learn more about The Little Green Book QASS Series [Click Here](#)

Agent-based Modeling and Simulation in Archaeology Gabriel Wurzer, Kerstin Kowarik, Hans Reschreiter, 2014-11-08 Archaeology has been historically reluctant to embrace the subject of agent based simulation since it was seen as being used to re enact and visualize possible scenarios for a wider generally non scientific audience based on

scarce and fuzzy data Furthermore modeling in exact terms and programming as a means for producing agent based simulations were simply beyond the field of the social sciences This situation has changed quite drastically with the advent of the internet age Data it seems is now ubiquitous Researchers have switched from simply collecting data to filtering selecting and deriving insights in a cybernetic manner Agent based simulation is one of the tools used to glean information from highly complex excavation sites according to formalized models capturing essential properties in a highly abstract and yet spatial manner As such the goal of this book is to present an overview of techniques used and work conducted in that field drawing on the experience of practitioners

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