

FLAMINIO SQUAZZONI

# Agent-Based Computational Sociology



# **Agent Based Computational Sociology**

André Grow, Jan Van Bavel

#### **Agent Based Computational Sociology:**

Agent-Based Computational Sociology Flaminio Squazzoni, 2012-02-27 Most of the intriguing social phenomena of our time such as international terrorism social inequality and urban ethnic segregation are consequences of complex forms of agent interaction that are difficult to observe methodically and experimentally This book looks at a new research stream that makes use of advanced computer simulation modelling techniques to spotlight agent interaction that allows us to explain the emergence of social patterns It presents a method to pursue analytical sociology investigations that look at relevant social mechanisms in various empirical situations such as markets urban cities and organisations This book Provides a comprehensive introduction to epistemological theoretical and methodological features of agent based modelling in sociology through various discussions and examples Presents the pros and cons of using agent based models in sociology Explores agent based models in combining quantitative and qualitative aspects and micro and macro levels of analysis Looks at how to pose an agent based research question identifying the model building blocks and how to validate simulation results Features examples of agent based models that look at crucial sociology issues Supported by an accompanying website featuring data sets and code for the models included in the book Agent Based Computational Sociology is written in a common sociological language and features examples of models that look at all the traditional explanatory challenges of sociology Researchers and graduate students involved in the field of agent based modelling and computer simulation in areas such as social sciences cognitive sciences and computer sciences will benefit from this book Methodological Investigations in **Agent-Based Modelling** Eric Silverman, 2018-02-20 This open access book examines the methodological complications of using complexity science concepts within the social science domain The opening chapters take the reader on a tour through the development of simulation methodologies in the fields of artificial life and population biology then demonstrates the growing popularity and relevance of these methods in the social sciences Following an in depth analysis of the potential impact of these methods on social science and social theory the text provides substantive examples of the application of agent based models in the field of demography This work offers a unique combination of applied simulation work and substantive in depth philosophical analysis and as such has potential appeal for specialist social scientists complex systems scientists and philosophers of science interested in the methodology of simulation and the practice of interdisciplinary computing research Agent-Based Modelling in Population Studies André Grow, Jan Van Bavel, 2016-08-11 This book examines the use of agent based modelling ABM in population studies from concepts to applications best practices to future developments It features papers written by leading experts in the field that will help readers to better understand the usefulness of ABM for population projections how ABM can be injected with empirical data to achieve a better match between model and reality how geographic information can be fruitfully used in ABM and how ABM results can be reported effectively and correctly Coverage ranges from detailing the relation between ABM and existing paradigms in population

studies to infusing agent based models with empirical data The papers show the benefits that ABM offers the field including enhanced theory formation by better linking the micro level with the macro level the ability to represent populations more adequately as complex systems and the possibility to study rare events and the implications of alternative mechanisms in artificial laboratories In addition readers will discover guidelines and best practices with detailed examples of how to apply agent based models in different areas of population research including human mating behaviour migration and socio structural determinants of health behaviours Earlier versions of the papers in this book have been presented at the workshop Recent Developments and Future Directions in Agent Based Modelling in Population Studies which took place at the University of Leuven KU Leuven Belgium in September 2014 The book will contribute to the development of best practices in the field and will provide a solid point of reference for scholars who want to start using agent based modelling in their own research The Atlas of Social Complexity Brian Castellani, Lasse Gerrits, 2024-06-05 Embark on a riveting journey through the study of social complexity with The Atlas of Social Complexity Over three decades of scientific exploration unfold unravelling the enigmatic threads that compose the fabric of society From the dance of bacteria to human machine interactions to the ever shifting dynamics of power in social networks this Atlas maps the evolution of our understanding of An Interpretive Account to Agent-based Social Simulation Martin Neumann, 2023-09-11 Using the investigation of criminal culture as an example application this edited volume presents a novel approach to agent based simulation interpretive agent based social simulation as a methodological and transdisciplinary approach to examining the potential of qualitative data and methods for agent based modelling ABM Featuring updated articles as well as original chapters which provide a cohesive and novel approach to the digital humanities the book challenges the common conviction that hermeneutics and simulation are two mutually exclusive ways to understand and explain human behaviour and social change Exploring how methodology benefits from taking cultural complexities into account and bringing these methods together in an innovative combination of qualitative hermeneutic and digital techniques the book unites experts in the field to connect ABM to narrative theories thereby providing a novel tool for cultural studies An innovative methodological contribution to narrative theory this volume will be of primary benefit to researchers scholars and academics in the fields of ABM hermeneutics and criminology The book will also appeal to those working in policing security and forensic consultation

Trends in Computer Science, Engineering and Information Technology Dhinaharan Nagamalai, Eric Renault, Murugan Dhanuskodi, 2011-09-14 This book constitutes the refereed proceedings of the First International Conference on Computer Science Engineering and Information Technology CCSEIT 2011 held in Tirunelveli India in September 2011 The 73 revised full papers were carefully reviewed and selected from more than 400 initial submissions The papers feature significant contributions to all major fields of the Computer Science and Information Technology in theoretical and practical aspects Advances in Sociology Research Leopold M. Stoneham, 2004 Presents original research results on the leading edge of

sociology Each chapter has been carefully selected in an attempt to present substantial advances across a broad spectrum *Rethinking Analytical Sociology* Daniel Little,2025-03-12 This discerning book outlines the methods assumptions and achievements of analytical sociology presenting it as a valuable research approach in the social sciences Daniel Little argues that analytical sociology provides an ambitious basis for understanding and explaining a range of important social phenomena while also engaging critically with several key theoretical assumptions of the approach that limit its generality

Causality in Policy Studies Alessia Damonte, Fedra Negri, 2023-02-13 This volume provides a methodological toolbox for conducting policy research Recognizing that policy research spans various academic disciplines each of which takes a different view on causality the volume introduces a methodologically pluralistic approach to policy studies Each chapter clarifies the research question that each technique can answer the research design and data treatment that each technique requires for its results to be sound the validity domain of its results and the actual deployment of the technique through a replicable example Techniques covered include quasi experimental designs approaches to account for selection bias and observed imbalances directed acyclic graphs and structural equation models Qualitative Comparative Analysis Bayesian case study and process tracing and Agent Based Modelling By working through the volume readers will understand how to learn from different techniques apply them consciously and triangulate them to make better sense of findings This volume is intended for advanced academic courses as well as scholars and practitioners in policy related fields such as political science economics sociology and public administration This is an open access book Research Handbook on Digital Sociology Jan Skopek, 2023-03-02 Exploring the social implications of digital transformation as well as demonstrating how we might use digital transformation to further sociological knowledge this incisive Handbook provides an extensive overview of cutting edge research on the digital turn of modern society This title contains one or more Open Access chapters Machine Learning Perspectives of Agent-Based Models Pedro Campos, Anand Rao, Joaquim Margarido, 2025-09-19 This book provides an overview of agent based modeling ABM and multi agent systems MAS emphasizing their significance in understanding complex economic systems with a special focus on the emerging properties of heterogeneous agents that cannot be deduced from the characteristics of individual agents ABM is highlighted as a powerful tool for studying economics especially in the context of financial crises and pandemics where traditional models such as dynamic stochastic general equilibrium DSGE models have proven inadequate Containing numerous practical examples and applications with R Python Julia and Netlogo the book explores how learning particularly machine learning can be integrated into multi agent systems to enhance the adaptation and behavior of agents in dynamic environments It compares different learning approaches including game theory and artificial intelligence highlighting the advantages of each in modeling economic phenomena Advances in Social Simulation Harko Verhagen, Melania Borit, Giangiacomo Bravo, Nanda Wijermans, 2020-04-30 This book presents the state of the art in social simulation as presented at the Social Simulation Conference 2018 in Stockholm Sweden It covers the

developments in applications and methods of social simulation addressing societal issues such as socio ecological systems and policy making Methodological issues discussed include large scale empirical calibration model sharing and interdisciplinary research as well as decision making models validation and the use of qualitative data in simulation modeling Research areas covered include archaeology cognitive science economics organization science and social simulation education This collection gives readers insight into the increasing use of social simulation in both its theoretical development and in practical applications such as policy making whereby modelling and the behavior of complex systems is key The book **Agent-Based Simulation of Vulnerability** will appeal to students researchers and professionals in the various fields **Dynamics** Cilli Sobiech, 2012-10-10 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 sensity social phenomena such as vulnerability Furthermore it achieves conceptually and strategically relevant implications for risk research and complex systems research 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 Non-Equilibrium Social Science and Policy Jeffrey Johnson, Andrzej Nowak, Paul Ormerod, Bridget Rosewell, Yi-Cheng Zhang, 2017-01-20 The overall aim of this book an outcome of the European FP7 FET

Open NESS project is to contribute to the ongoing effort to put the quantitative social sciences on a proper footing for the 21st century A key focus is economics and its implications on policy making where the still dominant traditional approach increasingly struggles to capture the economic realities we observe in the world today with vested interests getting too often in the way of real advances Insights into behavioral economics and modern computing techniques have made possible both the integration of larger information sets and the exploration of disequilibrium behavior. The domain based chapters of this work illustrate how economic theory is the only branch of social sciences which still holds to its old paradigm of an equilibrium science an assumption that has already been relaxed in all related fields of research in the light of recent advances in complex and dynamical systems theory and related data mining The other chapters give various takes on policy and decision making in this context Written in nontechnical style throughout with a mix of tutorial and essay like contributions this book will benefit all researchers scientists professionals and practitioners interested in learning about the thinking in complexity to understand how socio economic systems really work Sociology, Research Handbook on Analytical Sociology Manzo, Gianluca, 2021-12-14 Providing an up to date portrait of the concepts and methods of analytical sociology this pivotal Research Handbook traces the historical evolution of the field utilising key research examples to illustrate its core principles It investigates how analytical sociology engages with other approaches such as analytical philosophy structural individualism social stratification research complexity science pragmatism and critical realism exploring the foundations of the topic as well as its major explanatory mechanisms and methods Complexity Science Brian Castellani, Frederic William Hafferty, 2009-10-03 By now most academics have heard something about the new science of complexity In a manner reminiscent of Einstein and the last hundred years of physics complexity science has captured the public imagination One can go to Amazon com and purchase books on complexification Casti 1994 emergence Holland 1998 small worlds Barab si 2003 the web of life Capra 1996 fuzzy thinking Kosko 1993 global c plexity Urry 2003 and the business of long tails Anderson 2006 Even television has incorporated the topics of complexity science Crime shows such as 24 or CSI typically feature investigators using the latest advances in computational modeling to simulate scenarios or data mine all p sible suspects all of which is done before the crime takes place The World Wide Web is another example A simple search on Google Com using the phrase complexity science gets close to a million hits C plexity science is ubiquitous What most scholars do not realize however is the remarkable role sociologists are playing in this new science C sider the following examples 0 1 Sociologists in Complexity Science The first example comes from the new science of networks Barab si 2003 By now most readers are familiar with the phenomena known as six degrees of separation the idea that because most large networks are comprised of a significant number of non random weak ties the nodes e g people companies etc Complexity and Emergence Sergio Albeverio, Elisa Mastrogiacomo, Emanuela Rosazza Gianin, Stefania Ugolini, 2022-05-07 This book includes contributions about mathematics physics philosophy of science economics and finance

and resulted from the Summer School Complexity and Emergence Ideas Methods with a Special Attention to Economics and Finance held in Lake Como School of Advanced Studies on 22 27 July 2018 The aim of the book is to provide useful instruments from the theory of complex systems both on the theoretical level and the methodological ones profiting from knowledge and insights from leading experts of different communities It moves from the volume editors conviction that to achieve progress in understanding socio economical as well as ecological problems of our complex word such preparation is needed together with a critical reconsideration of our basic scientific and economical approach The potential readers are primarily master and doctorate students of mathematics information sciences theoretical physics and economics as well as research workers in those areas who want to enlarge their spectrum of knowledge towards the area of complexity and emergence Since ideas and methods of the theory of complex systems also apply to other areas from engineering and architecture to biology and medicine e g students and research workers from those areas will also profit from this book

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