

GENERATIVE SOCIAL SCIENCE

STUDIES IN AGENT-BASED COMPUTATIONAL MODELING



JOSHUA M. EPSTEIN

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Generative Social Science: Studies in Agent-Based Computational Modeling Joshua M. Epstein, 2006 Agent based computational modeling is changing the face of social science This book argues that this powerful technique permits the social sciences to meet an explanation in which one grows the phenomenon of interest in an artificial society of interacting agents heterogeneous boundedly rational actors Proceedings of the 2018 Conference of the Computational Social Science Society of the Americas Ted Carmichael, Zining Yang, 2020-05-27 This book contains a selection of the latest research in the field of Computational Social Science CSS methods uses and results as presented at the 2018 annual conference of the CSSSA This conference was held in Santa Fe New Mexico October 25 28 2018 at the Drury Plaza Hotel CSS investigates social and behavioral dynamics in both nature and society through computer simulation network analysis and the science of complex systems The Computational Social Science Society of the Americas CSSSA is a professional society that aims to advance the field of CSS in all its areas from fundamental principles to real world applications by holding conferences and workshops promoting standards of scientific excellence in research and teaching and publishing novel research findings What follows is a diverse representation of new approaches and research findings using the tools of CSS and Agent Based Modeling ABM in exploring complex phenomena across many different domains Readers will not only have the methods and results of these specific projects on which to build but will also gain a greater appreciation for the broad scope of CSS and have a wealth of case study examples that can serve as meaningful exemplars for new research projects and activities This book we hope will appeal to any researchers and students working in the social sciences broadly defined who aim to better understand and apply the concepts of Complex Adaptive Systems to their work Proceedings of the 2022 Conference of The Computational Social Science Society of the Americas Zining Yang, Santiago Núñez-Corrales, 2023-10-10 This book contains a selection of the latest research in the field of computational social science CSS methods uses and results as presented at the 2022 annual conference of the Computational Social Science Society of the Americas CSSSA Computational social science CSS is the science that investigates social and behavioral dynamics through social simulation social network analysis and social media analysis The CSSSA is a professional society that aims to advance the field of computational social science in all areas including basic and applied orientations by holding conferences and workshops promoting standards of scientific excellence in research and teaching and publishing research findings and results The SAGE Handbook of the Philosophy of Social Sciences Ian C Jarvie, Jesus Zamora-Bonilla, 2011-02-17 what is the relationship between the social sciences and the natural sciences where do today s dominant approaches to doing social science come from what are the main fissures and debates in contemporary social scientific thought how are we to make sense of seemingly contrasting approaches to how social scientists find out about the world and justify their claims to have knowledge of it In this exciting handbook Ian Jarvie and Jes s Zamora Bonilla have put together a wide ranging and authoritative overview of the main

philosophical currents and traditions at work in the social sciences today Starting with the history of social scientific thought this handbook sets out to explore that core fundamentals of social science practice from issues of ontology and epistemology to issues of practical method Along the way it investigates such notions as paradigm empiricism postmodernism naturalism language agency power culture and causality Bringing together in one volume leading authorities in the field from around the world this book will be a must have for any serious scholar or student of the social sciences

Epistemological Aspects of Computer Simulation in the Social Sciences Flaminio Squazzoni, 2009-04-22 This book constitutes the revised versions of the invited and selected papers from the Second Epistemological Perspectives on Simulation Workshop EPOS 2006 which was held in Brescia Italy during October 5 6 2006 The 11 papers presented together with 2 invited papers were carefully reviewed and selected from 35 submissions The topics addressed were epistemological and methodological contents such as the relevance of empirical foundations for agent based simulations the role of theory the concepts and meaning of emergence the trade off between simplification and complexification of models

Limits Of Mathematical Modeling In The Social Sciences, The: The Significance Of Godel's Incompleteness Phenomenon Francisco Antonio Doria, 2017-05-30 Current mathematical models are notoriously unreliable in describing the time evolution of unexpected social phenomena from financial crashes to revolution Can such events be forecast Can we compute probabilities about them Can we model them This book investigates and attempts to answer these questions through G del s two incompleteness theorems and in doing so demonstrates how influential G del is in modern logical and mathematical thinking Many mathematical models are applied to economics and social theory while G del s theorems are able to predict their limitations for more accurate analysis and understanding of national and international events This unique discussion is written for graduate level mathematicians applying their research to the social sciences including economics social studies and philosophy and also for formal logicians and philosophers of science

An Agent-Based Model of Heterogeneous Demand Matthias Müller, 2017-06-14 Matthias M ller makes a case for the particular role of the demand side in research on innovation Based on a complex agent based simulation model he analyzes the versatile mutual relationships between consumers and producers within the innovation process Instead of oversimplifying the demand side the book aims to apply important aspects which too often are only applied to the supply side e g the heterogeneity and bounded rationality of economic actors embedded in networks The results offer a new perspective on the innovation process proving that the demand side and consumers are important drivers of innovation which must be included in future research for a full picture

Social-Behavioral Modeling for Complex Systems Paul K. Davis, Angela O'Mahony, Jonathan Pfautz, 2019-03-18 This volume describes frontiers in social behavioral modeling for contexts as diverse as national security health and on line social gaming Recent scientific and technological advances have created exciting opportunities for such improvements However the book also identifies crucial scientific ethical and cultural challenges to be met if social behavioral modeling is to achieve its potential Doing so will require new methods data sources

and technology The volume discusses these including those needed to achieve and maintain high standards of ethics and privacy The result should be a new generation of modeling that will advance science and separately aid decision making on major social and security related subjects despite the myriad uncertainties and complexities of social phenomena Intended to be relatively comprehensive in scope the volume balances theory driven data driven and hybrid approaches The latter may be rapidly iterative as when artificial intelligence methods are coupled with theory driven insights to build models that are sound comprehensible and usable in new situations With the intent of being a milestone document that sketches a research agenda for the next decade the volume draws on the wisdom ideas and suggestions of many noted researchers who draw in turn from anthropology communications complexity science computer science defense planning economics engineering health systems medicine neuroscience physics political science psychology public policy and sociology In brief the volume discusses Cutting edge challenges and opportunities in modeling for social and behavioral science Special requirements for achieving high standards of privacy and ethics New approaches for developing theory while exploiting both empirical and computational data Issues of reproducibility communication explanation and validation Special requirements for models intended to inform decision making about complex social systems

Lewis Fry Richardson: His Intellectual Legacy and Influence in the Social Sciences Nils Petter Gleditsch, 2019-12-10 This is an open access book Lewis F Richardson 1981

1953 a physicist by training was a pioneer in meteorology and peace research and remains a towering presence in both fields This edited volume reviews his work and assesses its influence in the social sciences notably his work on arms races and their consequences mathematical models the size distribution of wars and geographical features of conflict It contains brief bibliographies of his main publications and of articles and books written about Richardson and his work and discusses his continuing influence in peace research and international relations as well as his attitude to the ethical responsibilities of a scientist It will be of interest to a wide range of scholars This book includes 11 chapters written by Nils Petter Gleditsch Dina A Zinnes Ron Smith Paul F Diehl Kelly Kadera Mark Crescenzi Michael D Ward Kristian Skrede Gleditsch Nils B Weidmann Jrgen Scheffran Niall MacKay Aaron Clauset Michael Spagat and Stijn van Weezel Lewis F Richardson occupied an important position in two academic fields as different as meteorology and peace research with academic prizes awarded in both disciplines In peace research he pioneered the use of mathematical models and the meticulous compilation of databases for empirical research As a quaker and pacifist he refused to work in preparations for war paid a heavy prize in terms of his career and at least in the social sciences was fully recognized as a pioneering scholar only posthumously with the publication of two major books Lewis Fry Richardson is one of the 20th century s greatest but least appreciated thinkers a creative physicist psychologist meteorologist applied mathematician historian pacifist statistician and witty stylist If you ve heard of weather prediction chaos fractals cliometrics peace science big data thick tails or black swans then you have benefited from Richardson s prescience in bringing unruly phenomena into the ambit of scientific understanding Richardson s ideas continue

to be relevant today and this collection is a superb retrospective on this brilliant and lovable man Steven Pinker Johnstone Professor Harvard University and the author of The Better Angels of Our Nature and Enlightenment Now **Encyclopedia of Information Science and Technology, Third Edition** Khosrow-Pour, D.B.A., Mehdi, 2014-07-31 This 10 volume compilation of authoritative research based articles contributed by thousands of researchers and experts from all over the world emphasized modern issues and the presentation of potential opportunities prospective solutions and future directions in the field of information science and technology Provided by publisher Agent-Based Computational Economics Shu-Heng Chen, 2017-09-19 This book aims to answer two questions that are fundamental to the study of agent based economic models what is agent based computational economics and why do we need agent based economic modelling of economy This book provides a review of the development of agent based computational economics ACE from a perspective on how artificial economic agents are designed under the influences of complex sciences experimental economics artificial intelligence evolutionary biology psychology anthropology and neuroscience This book begins with a historical review of ACE by tracing its origins From a modelling viewpoint ACE brings truly decentralized procedures into market analysis from a single market to the whole economy This book also reviews how experimental economics and artificial intelligence have shaped the development of ACE For the former the book discusses how ACE models can be used to analyse the economic consequences of cognitive capacity personality and cultural inheritance For the latter the book covers the various tools used to construct artificial adaptive agents including reinforcement learning fuzzy decision rules neural networks and evolutionary computation This book will be of interest to graduate students researching computational economics experimental economics behavioural economics and research methodology The Growth of Social Knowledge Jacek Szmata, Michael Lovaglia, Kinga Wysienska, 2002-10-30 This timely comprehensive analysis of the latest advances in group processes research shows how cutting edge technologies such as laboratory experiments simulations and complex systems combine with the rigor of cumulative research programs to change the way we see the social world Group processes researchers study society scientifically and have used sociological theory to build scientific cumulative knowledge about the social world Over the last 20 years they have been extremely successful in advancing this knowledge through the reciprocal interplay of theory and experiment The synthesis of such knowledge uniting theory simulation and experiment provides substantive explanations for social phenomena and predictions about events in complex social systems This volume explores aspects of this synthesis from the perspective of group processes research Providing deep analyses of methodological issues related to the synthesis of the theories simulations and experiments of group processes research the authors also offer empirical examples of various studies that have been conducted They investigate the ways in which theoretical research programs coordinate theory and empirical research in sociology to produce scientific progress and how computer simulations have evolved into an important component of theoretical research programs This illustration of the relationships between theory construction and the

method of theory verification advances our understanding of the field and may lead to a radical shift in the methodology and substance of modern social science Model-Based Reasoning in Science and Technology Lorenzo Magnani, 2013-08-31 This book contains contributions presented during the international conference on Model Based Reasoning MBR 012 held on June 21-23 in Sestri Levante Italy Interdisciplinary researchers discuss in this volume how scientific cognition and other kinds of cognition make use of models abduction and explanatory reasoning in order to produce important or creative changes in theories and concepts Some of the contributions analyzed the problem of model based reasoning in technology and stressed the issues of scientific and technological innovation The book is divided in three main parts models mental models representations abduction problem solving and practical reasoning historical epistemological and technological issues The volume is based on the papers that were presented at the international *Routledge Handbook of Behavioral Economics* Roger Frantz, Shu-Heng Chen, Kurt Dopfer, Floris Heukelom, Shabnam Mousavi, 2016-08-05 There is no doubt that behavioral economics is becoming a dominant lens through which we think about economics Behavioral economics is not a single school of thought but representative of a range of approaches and uniquely this volume presents an overview of them The wide spectrum of international contributors each provides an exploration of a central approach aspect or topic in behavioral economics Taken together the whole volume provides a comprehensive overview of the subject which considers both key developments and future possibilities Part One presents several different approaches to behavioural economics including George Katona Ken Boulding Harvey Leibenstein Vernon Smith Herbert Simon Gerd Gigerenzer Daniel Kahneman and Richard Thaler This section looks at the origins and development of behavioral economics and compares and contrasts the work of these scholars who have been so influential in making this area so prominent Part Two presents applications of behavioural economics including nudging heuristics emotions and morality behavioural political economy education and economic innovation The Routledge Handbook of Behavioral Economics is ideal for advanced economics students and faculty who are looking for a complete state of the art overview of this dynamic field **Complexity and Evolution** David S. Wilson, Alan Kirman, 2016-08-19 An exploration of how approaches that draw on evolutionary theory and complexity science can advance our understanding of economics Two widely heralded yet contested approaches to economics have emerged in recent years one emphasizes evolutionary theory in terms of individuals and institutions the other views economies as complex adaptive systems In this book leading scholars examine these two bodies of theory exploring their possible impact on economics Relevant concepts from evolutionary theory drawn on by the contributors include the distinction between proximate and ultimate causation multilevel selection cultural change as an evolutionary process and human psychology as a product of gene culture coevolution Applicable ideas from complexity theory include self organization fractals chaos theory sensitive dependence basins of attraction and path dependence The contributors discuss a synthesis of complexity and evolutionary approaches and the challenges that emerge Focusing on evolutionary behavioral economics and the evolution of

institutions they offer practical applications and point to avenues for future research Contributors Robert Axtell Jenna Bednar Eric D Beinhocker Adrian V Bell Terence C Burnham Julia Chelen David Colander Iain D Couzin Thomas E Currie Joshua M Epstein Daniel Fricke Herbert Gintis Paul W Glimcher John Gowdy Thorsten Hens Michael E Hochberg Alan Kirman Robert Kurzban Leonhard Lades Stephen E G Lea John E Mayfield Mariana Mazzucato Kevin McCabe John F Padgett Scott E Page Karthik Panchanathan Peter J Richerson Peter Schuster Georg Schwesinger Rajiv Sethi Enrico Spolaore Sven Steinmo Miriam Teschl Peter Turchin Jeroen C J M van den Bergh Sander E van der Leeuw Romain Wacziarg John J Wallis David S Wilson Ulrich Witt

The Routledge Handbook of Philosophy, Politics, and Economics C.M. Melenovsky, 2022-05-02 This handbook advances the interdisciplinary field of Philosophy Politics and Economics PPE by identifying thirty five topics of ongoing research Instead of focusing on historically significant texts it features experts talking about current debates Individually each chapter provides a resource for new research Together the chapters provide a thorough introduction to contemporary work in PPE which makes it an ideal reader for a senior year course The handbook is organized into seven parts each with its own introduction and five chapters I Frameworks II Decision Making III Social Structures IV Markets V Economic Systems VI Distributive Justice VII Democracy The Frameworks part discusses common tools and perspectives in PPE and the Decision making section shows different approaches to the study of choice From there parts on Social Structures Markets and Economic Systems each use tools from the three PPE disciplines to study and distinguish parts of society The next part explains dominant theories and challenges to the paradigm of Distributive Justice Finally a part on Democracy offers five challenges to current democratic practice

Worldviews, Science and Us Carlos Gershenson, Diederik Aerts, Bruce Edmonds, 2007 Scientific technological and cultural changes have always had an impact upon philosophy They can force a change in the way we perceive the world reveal new kinds of phenomena to be understood and provide new ways of understanding phenomena Complexity science immersed in a culture of information is having a diverse but particularly significant impact upon philosophy Previous ideas do not necessarily sit comfortably with the new paradigm resulting in new ideas or new interpretations of old ideas In this unprecedented interdisciplinary volume researchers from different backgrounds join efforts to update thinking upon philosophical questions with developments in the scientific study of complex systems The contributions focus on a wide range of topics but share the common goal of increasing our understanding and improving our descriptions of our complex world This revolutionary debate includes contributions from leading experts as well as young researchers proposing fresh ideas

Handbook of Research on Agent-Based Societies: Social and Cultural Interactions Trajkovski, Goran, Collins, Samuel G., 2009-02-28 This volume addresses a variety of issues in particular the emergence of societal phenomena in the interactions of systems of agents software robot or human Provided by publisher

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

Information Visualization Techniques in the Social Sciences and Humanities Osinska, Veslava, Osinski, Grzegorz, 2018-03-23 The representation of abstract data and ideas can be a difficult and tedious task to handle when learning new concepts however the advances in emerging technology have allowed for new methods of representing such conceptual data Information Visualization Techniques in the Social Sciences and Humanities is a critical scholarly resource that examines the application of information visualization in the social sciences and humanities Featuring coverage on a broad range of topics such as social network analysis complex systems and visualization aesthetics this book is geared towards professionals students and researchers seeking current research on information visualization

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