

ROBERT AXELROD

**The
Complexity
of
Cooperation**

Agent-Based
Models of
Competition
and
Collaboration

PRINCETON STUDIES IN COMPLEXITY

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The Complexity of Cooperation Robert Axelrod, 1997-09-07 Robert Axelrod is widely known for his groundbreaking work in game theory and complexity theory. He is a leader in applying computer modeling to social science problems. His book *The Evolution of Cooperation* has been hailed as a seminal contribution and has been translated into eight languages since its initial publication. *The Complexity of Cooperation* is a sequel to that landmark book. It collects seven essays originally published in a broad range of journals and adds an extensive new introduction to the collection along with new prefaces to each essay and a useful new appendix of additional resources. Written in Axelrod's acclaimed accessible style, this collection serves as an introductory text on complexity theory and computer modeling in the social sciences and as an overview of the current state of the art in the field. The articles move beyond the basic paradigm of the Prisoner's Dilemma to study a rich set of issues including how to cope with errors in perception or implementation, how norms emerge, and how new political actors and regions of shared culture can develop. They use the shared methodology of agent-based modeling, a powerful technique that specifies the rules of interaction between individuals and uses computer simulation to discover emergent properties of the social system. *The Complexity of Cooperation* is essential reading for all social scientists who are interested in issues of cooperation and complexity.

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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 as 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 Models and Causal Inference Gianluca Manzo, 2022-01-28

Agent based Models and Causal Inference Scholars of causal inference have given little credence to the possibility that ABMs could be an important tool in warranting causal claims Manzo's book makes a convincing case that this is a mistake The book starts by describing the impressive progress that ABMs have made as a credible methodology in the last several decades It then goes on to compare the inferential threats to ABMs versus the traditional methods of RCTs regression and instrumental variables showing that they have a common vulnerability of being based on untestable assumptions The book concludes by looking at four examples where an analysis based on ABMs complements and augments the evidence for specific causal claims provided by other methods Manzo has done a most convincing job of showing that ABMs can be an important resource in any researcher's tool kit

Christopher Winship Diker Tishman Professor of Sociology Harvard University USA Agent based Models and Causal Inference is a first rate contribution to the debate on and practice of causal claims With exemplary rigor systematic precision and pedagogic clarity this book contrasts the assumptions about causality that undergird agent based models experimental methods and statistically based observational methods discusses the challenges these methods face as far as inferences go and in light of this discussion elaborates the case for combining these methods respective strengths a remarkable achievement

Ivan Ermakoff Professor of Sociology University of Wisconsin Madison USA Agent based models are a uniquely powerful tool for understanding how patterns in society may arise in often surprising and counter intuitive ways This book offers a strong and deeply reflected argument for how ABM's can do much more add to actual empirical explanation The work is of great value to all social scientists interested in learning how computational modelling can help unraveling the complexity of the real social world

Andreas Flache Professor of Sociology at the University of Groningen Netherlands Agent based Models and Causal Inference is an important and much needed contribution to sociology and computational social science The book provides a rigorous new contribution to current understandings of the foundation of causal inference and justification in the social sciences It provides a powerful and cogent alternative to standard statistical causal modeling approaches to causation Especially valuable is Manzo's careful analysis of the conditions under which an agent based simulation is relevant to causal inference The book represents an exceptional contribution to sociology the philosophy of social science and the epistemology of simulations and models

Daniel Little Professor of philosophy University of Michigan USA Agent based Models and Causal Inference delivers an insightful investigation into the conditions under

which different quantitative methods can legitimately hold to be able to establish causal claims The book compares agent based computational methods with randomized experiments instrumental variables and various types of causal graphs Organized in two parts Agent based Models and Causal Inference connects the literature from various fields including causality social mechanisms statistical and experimental methods for causal inference and agent based computation models to help show that causality means different things within different methods for causal analysis and that persuasive causal claims can only be built at the intersection of these various methods Readers will also benefit from the inclusion of A thorough comparison between agent based computation models to randomized experiments instrumental variables and several types of causal graphs A compelling argument that observational and experimental methods are not qualitatively superior to simulation based methods in their ability to establish causal claims Practical discussions of how statistical experimental and computational methods can be combined to produce reliable causal inferences Perfect for academic social scientists and scholars in the fields of computational social science philosophy statistics experimental design and ecology Agent based Models and Causal Inference will also earn a place in the libraries of PhD students seeking a one stop reference on the issue of causal inference in agent based computational models

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

Generative Social Science Joshua M. Epstein, 2012-01-02 Agent based computational modeling is changing the face of social science In *Generative Social Science* Joshua Epstein argues that this powerful novel technique permits the social sciences to meet a fundamentally new standard of explanation in which one grows the phenomenon of interest in an artificial society of interacting agents heterogeneous boundedly rational actors represented as mathematical or software objects After elaborating this notion of generative explanation in a pair of overarching foundational chapters Epstein illustrates it with examples chosen from such far flung fields as archaeology civil conflict the evolution of norms epidemiology retirement economics spatial games and organizational adaptation In elegant chapter preludes he explains how these widely diverse modeling studies support his sweeping case for generative explanation This book represents a powerful consolidation of Epstein's interdisciplinary research activities in the decade since the publication of his and Robert Axtell's landmark volume *Growing Artificial Societies* Beautifully illustrated *Generative Social Science* includes a CD that contains animated movies of core model runs and programs allowing users to easily change assumptions and explore models making it an invaluable text for courses in modeling at all levels

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

A Passion for Cooperation Robert Axelrod, 2023-11-08 A Passion for Cooperation is the exciting autobiography of Robert Axelrod one of the most acclaimed and wide ranging scientists of the last fifty years After being recognized by President Kennedy for being a promising young scientist while in high school Axelrod built a career dedicated to collaborating with business school professors international relations scholars political scientists computer scientists and even evolutionary biologists and cancer researchers Fifty years later he was honored by President Obama with the National Medal of Science for scientific achievement and leadership and his work has been referred to as the gold standard of interdisciplinary research Yet Axelrod s autobiography is not just an account of his wide ranging passion for cooperation It reveals his struggles to overcome failures and experience the joys of gaining new insights into how to achieve cooperation A Passion for Cooperation recounts Robert Axelrod s adventures talking with the leader of the organization Hamas the Prime Minister of Israel and the Foreign Minister of Syria Axelrod also shares stories of being hosted in Kazakhstan by senior Soviet retired generals and visiting China with well connected policy advisors on issues of military aspects of cyber conflict Through stories of the difficulties and rewards of interdisciplinary collaborations readers will discover how Axelrod s academic and practical work have enriched each other and demonstrated that opportunities for cooperation are much greater than generally thought

Modelling Transitions Enayat A. Moallemi, Fjalar J. de Haan, 2019-11-28 Modelling Transitions shows what computational formal and data driven approaches can and could mean for sustainability transitions research presenting the state of the art and exploring what lies beyond Featuring contributions from many well known authors this book presents the various benefits of modelling for transitions research More than just taking stock it also critically examines what modelling of transformative change means and could mean for transitions research and for other disciplines that study societal changes This includes identifying a variety of approaches currently not

part of the portfolios of transitions modellers Far from only singing praise critical methodological and philosophical introspection are key aspects of this important book This book speaks to modellers and non modellers alike who value the development of robust knowledge on transitions to sustainability including colleagues in congenial fields Be they students researchers or practitioners everyone interested in transitions should find this book relevant as reference resource and guide

Neurotechnology in National Security and Defense James Giordano, 2014-09-25 Neurotechnology in National Security and Defense Practical Considerations Neuroethical Concerns is the second volume in the Advances in Neurotechnology series It specifically addresses the neuroethical legal and social issues arising from the use of neurotechnology in national security and defense agendas and applications Of particular concern

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