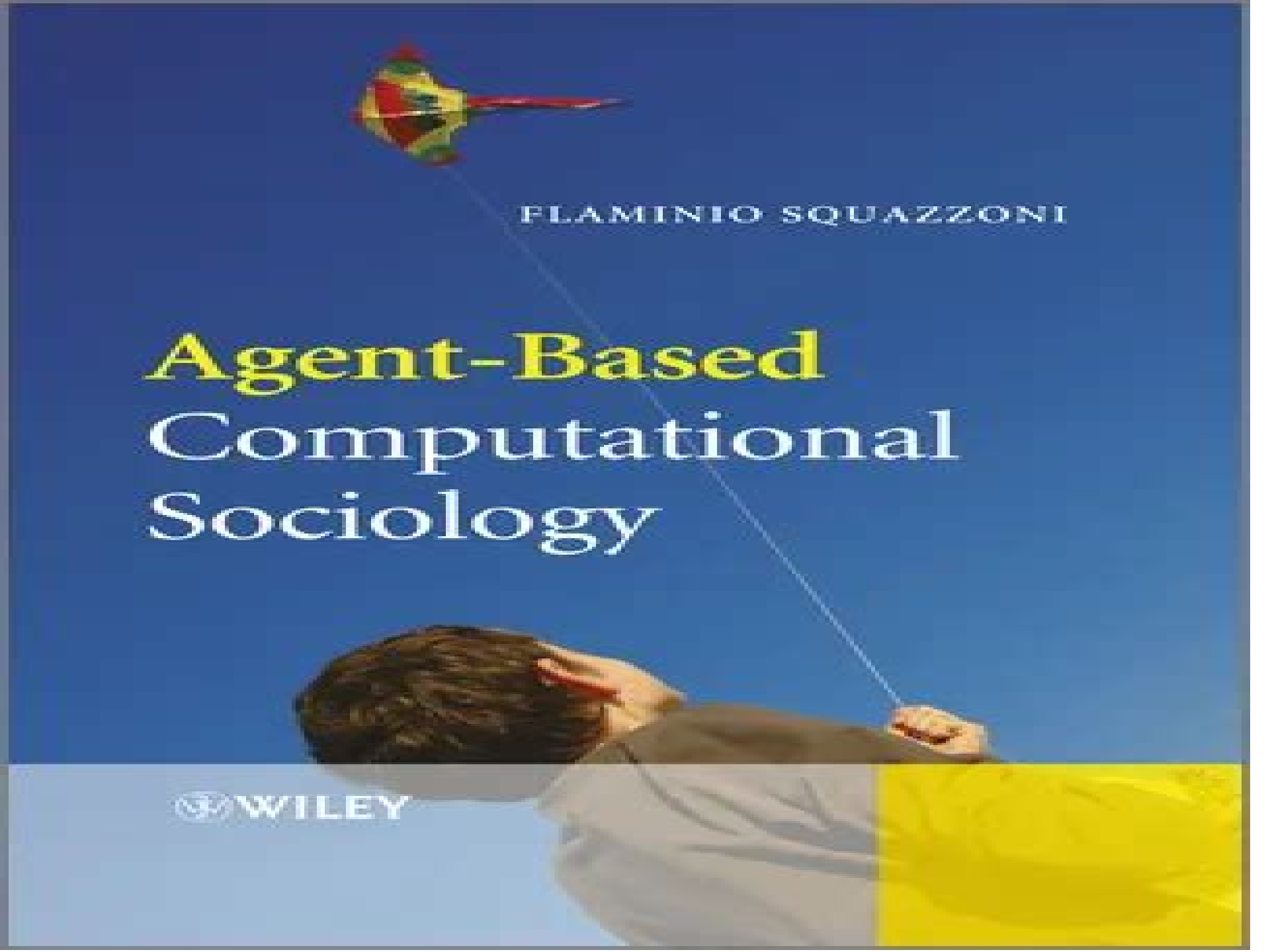


A low-angle photograph of a person with dark hair, seen from the back, holding a string of a colorful kite. The kite is in the upper left, and the string extends diagonally across the frame. The background is a clear, deep blue sky. The bottom of the image is partially obscured by a white and yellow horizontal band.

FLAMINIO SQUAZZONI

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sciences will benefit from this book 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 *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

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, respectively. 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 ABMs 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, randomized experiments, instrumental variables, and several types of causal graphs. A compelling argument that observational and experimental methods are not qualitatively superior to simulation.

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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

Markov Chain Aggregation for Agent-Based Models Sven Banisch,2015-12-21 This self contained text develops a Markov chain approach that makes the rigorous analysis of a class of microscopic models that specify the dynamics of complex systems at the individual level possible It presents a general framework of aggregation in agent based and related computational models one which makes use of lumpability and information theory in order to link the micro and macro levels of observation The starting point is a microscopic Markov chain description of the dynamical process in complete correspondence with the dynamical behavior of the agent based model ABM which is obtained by considering the set of all possible agent configurations as the state space of a huge Markov chain An explicit formal representation of a resulting micro chain including microscopic transition rates is derived for a class of models by using the random mapping representation of a Markov process The type of probability distribution used to implement the stochastic part of the model which defines the updating rule and governs the dynamics at a Markovian level plays a crucial part in the analysis of voter like models used in population genetics evolutionary game theory and social dynamics The book demonstrates that the problem of aggregation in ABMs and the lumpability conditions in particular can be embedded into a more general framework that employs information theory in order to identify different levels and relevant scales in complex dynamical systems

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 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 social complexity **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

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