



Sociological Knowledge in Computer Simulations

Example:

The urban transport simulation model TRANSFER

Erich Ruppert (Schweinfurt, Germany 2013)

Sociology Laboratory Computer Simulation

**National Science Foundation (U.S.).
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Sociology Laboratory Computer Simulation:

Sociology Laboratory William Sims Bainbridge, 1987 *Computer Simulations of Space Societies* William Sims Bainbridge, 2018-06-09 At the intersection of astronautics computer science and social science this book introduces the challenges and insights associated with computer simulation of human society in outer space and of the dynamics of terrestrial enthusiasm for space exploration Never before have so many dynamic representations of space related social systems existed some deeply analyzing the logical implications of social scientific theories and others open for experience by the general public as computer generated virtual worlds Fascinating software ranges from multi agent artificial intelligence models of civilization to space oriented massively multiplayer online games to educational programs suitable for schools or even for the world's space exploration agencies At the present time when actual forays by humans into space are scarce computer simulations of space societies are an excellent way to prepare for a renaissance of exploration beyond the bounds of Earth Agent-Based Computational Sociology Flaminio Squazzoni, 2012-04-23 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 Computer Simulations in Science and Technology Studies Petra Ahrweiler, Nigel Gilbert, 2012-12-06 What is it about the structure and organisation of science and technology that has led to the spectacularly successful growth of knowledge during this century This book explores this important and much debated question in an innovative way by using computer simulations The computer simulation of societies and social processes is a methodology which is rapidly becoming recognised for its potential in the social sciences This book applies the tools of simulation systematically to a specific domain science and technology studies The book shows

how computer simulation can be applied both to questions in the history and philosophy of science and to issues of concern to sociologists of science and technology Chapters in the book demonstrate the use of simulation for clarifying the notion of creativity and for understanding the logical processes employed by eminent scientists to make their discoveries The book begins with three introductory chapters The first introduces simulation for the social sciences surveying current work and explaining the advantages and pitfalls of this new methodology The second and third chapters review recent work on theoretical aspects of social simulation introducing fundamental concepts such as self organisation and complexity and relating these to the simulation of scientific discovery

Sociological Abstracts Leo P. Chall, 2003 CSA Sociological Abstracts abstracts and indexes the international literature in sociology and related disciplines in the social and behavioral sciences The database provides abstracts of journal articles and citations to book reviews drawn from over 1 800 serials publications and also provides abstracts of books book chapters dissertations and conference papers

A Guide to Undergraduate Science Course and Laboratory Improvements National Science Foundation (U.S.). Directorate for Science Education, 1979

Computational Analysis of Firms' Organization and Strategic Behaviour Edoardo Mollona, 2010-09-13

Management and organization theories have in the years developed rich methodological paraphernalia to test hypotheses This book addresses possible applications of computer simulation to theory building in management and organizational theory

The Virtual Future William Sims Bainbridge, 2011-09-06 The newest communication technologies are profoundly changing the world's politics economies and cultures but the specific implications of online game worlds remain mysterious The Virtual Future employs theories and methods from social science to explore nine very different virtual futures The Matrix Online Tabula Rasa Anarchy Online Entropia Universe Star Trek Online EVE Online Star Wars Galaxies World of Warcraft Burning Crusade and The Chronicles of Riddick Each presents a different picture of how technology and society could evolve in coming centuries but one theme runs through all of them the attempt to escape the Earth and seek new destinies among the stars Four decades after the last trip to the moon a new conception of spaceflight is emerging Rather than rockets shooting humans across vast physical distances to sterile rocks that lack the resources to sustain life perhaps robot space probes and orbiting telescopes will glean information about the universe that humans can then experience inside computer generated environments much closer to home All nine of these fantastically rich multiplayer masterpieces have shown myriads of people that really radical alternatives to contemporary society could exist and has served as a laboratory for examining the consequences Each is a prototype of new social forms a utopian subculture and a simulation of technologies that have yet to be invented They draw upon several different traditions of science fiction and academic philosophy and they were created in several nations By comparing these nine role playing fantasies we can better consider what kind of world we want to inhabit in the real future

Principles of Scientific Sociology Walter Wallace, 2017-07-12 Principles of Scientific Sociology represents a major attempt to redirect the course of contemporary sociological thought It is clear well organized

innovative and original in its discussion of the context and methods of sociology conceived as a natural science Wallace delineates the subject matter of sociology classifies its variables presents a logic of inquiry and advocates the use of this logic for the acceptance or rejection of hypotheses or theories and for the solving of human problems Social scientists including political scientists sociologists anthropologists historians economists social psychologists and students of social phenomena among nonhumans will find this work indispensable reading Principles of Scientific Sociology emphasizes the relationship between pure and applied sociological analysis The essential contributions of each to the other are specified Relationships between the substantive concepts of the sociology of humans on the one hand and the sociology of nonhumans on the other are systematized In an attempt to put sociological analysis on a firm scientific basis the book contains a concluding chapter focusing on central premises of natural science and their applicability to sociology Wallace identifies the simple elements and relationships that sociological analysis requires if it is to lead to an understanding of complex social phenomena On this basis he considers the substantive elements and relations that comprise structural functionalism historical materialism symbolic interactionism and other approaches to social data He develops groundwork for standardizing these elements so that the contexts of different analyses may become rigorously comparable The result is a fine one volume synthesis of sociological theory

Routledge International Handbook of Complexity Economics Ping Chen, Wolfram Elsner, Andreas Pyka, 2024-11-29 The Routledge International Handbook of Complexity Economics covers the historical developments and early concerns of complexity theorists and brings them into engagement with the world today In this volume a distinguished group of international scholars explore the state of the art of complexity economics and how it may deliver new and relevant insights to the challenges of the 21st century Complexity science started in 1899 when Henri Poincaré described the three body problem The first approaches in economics emerged somewhat later in the 1980s driven by the Brussels Austin school Since then complexity economics has gone through numerous developments departing from linear simplifications applying physical algorithms to evolutionary economics and big data This book covers the basic principles and methods and offers an overview of the various domains ranging from diverse fields of productivity studies agricultural economics to monetary economics as well as the current challenges such as climate change epidemics and economic inequality where complexity economics can provide insight It closes with a review of complexity political economy and policy Offering a vibrant alternative to orthodox economics this handbook is a crucial resource for advanced students researchers and economists across the disciplines of heterodox economics economic theory and econophysics

Grants and Awards for Fiscal Year... National Science Foundation (U.S.), 1977

All About Science: Philosophy, History, Sociology & Communication Lui Lam, Maria Burguete, 2014-10-15 There is a lot of confusion and misconception concerning science The nature and contents of science is an unsettled problem For example Thales of 2 600 years ago is recognized as the father of science but the word science was introduced only in the 14th century the definition of science is often avoided in books about philosophy of science This book

aims to clear up all these confusions and present new developments in the philosophy history sociology and communication of science It also aims to showcase the achievement of China s top scholars in these areas The 18 chapters divided into five parts are written by prominent scholars including the Nobel laureate Robin Warren sociologist Harry Collins and physicist turned historian Dietrich Stauffer

God from the Machine William Sims Bainbridge,2006-04-17 God from the machine deus ex machina refers to an ancient dramatic device where a god was mechanically brought onto the stage to save the hero from a difficult situation But here William Sims Bainbridge uses the term in a strikingly different way Instead of looking to a machine to deliver an already known god he asks what a computing machine and its simulations might teach us about how religion and religious beliefs come to being Bainbridge posits the virtual town of Cyburg population 44 100 Then using rules for individual and social behavior taken from the social sciences he models a complex community where residents form groups learn to trust or distrust each other and develop religious faith Bainbridge s straightforward arguments point to many more applications of computer simulation in the study of religion God from the Machine will serve as an important text in any class with a social scientific approach to religion

The Oxford Handbook of Analytical Sociology Peter Hedström,Peter Bearman,2011-01-06 Analytical sociology is a strategy for understanding the social world It is concerned with explaining important social facts such as network structures patterns of residential segregation typical beliefs cultural tastes and common ways of acting It explains such facts by detailing in clear and precise ways the mechanisms through which the social facts were brought about Making sense of the relationship between micro and macro thus is one of the central concerns of analytical sociology The approach is a contemporary incarnation of Robert K Merton s notion of middle range theory and presents a vision of sociological theory as a tool box of semi general theories each of which is adequate for explaining certain types of phenomena The Handbook brings together some of the most prominent sociologists in the world Some of the chapters focus on action and interaction as the cogs and wheels of social processes while others consider the dynamic social processes that these actions and interactions bring about

Computer Science in Social and Behavioral Science Education Daniel Edgar Bailey,1978

Methods of Comparative Law P. G. Monateri,2012-01-01 Comprising an array of distinguished contributors this pioneering volume of original contributions explores theoretical and empirical issues in comparative law The innovative interpretive approach found here combines explorative scholarship and research with thoughtful qualitative critiques of the field The book promotes a deeper appreciation of classical theories and offers new ways to re orient the study of legal transplants and transnational codes Methods of Comparative Law brings to bear new thinking on topics including the mutual relationship between space and law the plot that structures legal narratives identities and judicial interpretations a strategic approach to legal decision making and the inner potentialities of the comparative law and economics approach to the field Together the contributors reassess the scientific understanding of comparative methodologies in the field of law in order to provide both critical insights into the traditional literature and an original overview of the most recent and purposive

trends A welcome addition to the lively field of comparative law Methods of Comparative Law will appeal to students and scholars of law comparative law and economics Judges and practitioners will also find much of interest here Simulations and Games for Transition and Change Danny Saunders,Nina Smalley,2000 First Published in 2000 Routledge is an imprint of Taylor Francis an informa company

Modelling and Simulation in the Social Sciences from the Philosophy of Science Point of View R. Hegselmann,Ulrich Mueller,Klaus G. Troitzsch,1996-06-30 Model building in the social sciences can increasingly rely on well elaborated formal theories At the same time inexpensive large computational capacities are now available Both make computer based model building and simulation possible in social science whose central aim is in particular an understanding of social dynamics Such social dynamics refer to public opinion formation partner choice strategy decisions in social dilemma situations and much more In the context of such modelling approaches novel problems in philosophy of science arise which must be analysed the main aim of this book Interest in social simulation has recently been growing rapidly world wide mainly as a result of the increasing availability of powerful personal computers The field has also been greatly influenced by developments in cellular automata theory from mathematics and in distributed artificial intelligence which provided tools readily applicable to social simulation This book presents a number of modelling and simulation approaches and their relations to problems in philosophy of science It addresses sociologists and other social scientists interested in formal modelling mathematical sociology and computer simulation as well as computer scientists interested in social science applications and philosophers of social science

Computer Simulations in Science and Engineering Juan Manuel Durán,2018-09-20 This book addresses key conceptual issues relating to the modern scientific and engineering use of computer simulations It analyses a broad set of questions from the nature of computer simulations to their epistemological power including the many scientific social and ethics implications of using computer simulations The book is written in an easily accessible narrative one that weaves together philosophical questions and scientific technicalities It will thus appeal equally to all academic scientists engineers and researchers in industry interested in questions and conceivable answers related to the general practice of computer simulations

KI-Modelle in den Sozialwissenschaften Klaus Manhart,2015-07-24 Am konkreten Beispiel von Balancetheorien und an der Nahtstelle zwischen Sozialwissenschaft Künstlicher Intelligenz und Wissenschaftstheorie erarbeitet Manhart eine logische Rekonstruktion empirischer Theorien und eine innovative Anwendung von KI Techniken auf soziologische und sozialpsychologische Theorien Im deutschen Sprachraum ist dieses Werk bahnbrechend für den Einsatz wissensbasierter Computersysteme in den Sozialwissenschaften Der Autor Klaus Manhart ist wissenschaftlicher Mitarbeiter am Institut für Soziologie der Universität Leipzig

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