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SERIES A: PHILOSOPHY AND METHODOLOGY
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MODELLING AND SIMULATION IN THE SOCIAL SCIENCES FROM THE PHILOSOPHY OF SCIENCE POINT OF VIEW

*Edited by Rainer Hegselmann, Ulrich Mueller
and Klaus G. Troitzsch*

Modelling And Simulation In The Social Sciences From The Philosophy Of Science Point Of View

**R. Hegselmann, Ulrich Mueller, Klaus G.
Troitzsch**



Modelling And Simulation In The Social Sciences From The Philosophy Of Science Point Of View:

Modelling and Simulation in the Social Sciences from the Philosophy of Science Point of View R. Hegselmann, Ulrich Mueller, Klaus G. Troitzsch, 2013-03-09 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

Handbuch Modellbildung und Simulation in den Sozialwissenschaften Norman Braun, Nicole J. Saam, 2014-10-29 Das Handbuch Modellbildung und Simulation in den Sozialwissenschaften bietet in 37 Artikeln einen umfassenden Überblick über sozialwissenschaftliche Modellbildung und Simulation Es vermittelt wissenschaftstheoretische und methodische Grundlagen sowie den Stand der Forschung in den wichtigsten Anwendungsgebieten Behandelt werden realistische strukturalistische und konstruktivistische Zugriffe auf Modellbildung und Simulation bedeutende Methoden und Typen der Modellierung und stochastische Prozesse und Bayes Verfahren nutzen und spieltheoretische Modellierungen und Ansätze der Computersimulation z B Multi Agenten Modelle zelluläre Automaten neuronale Netze Small Worlds Die Anwendungskapitel befassen sich u a mit sozialen Dilemmata sozialen Normen Innovation und Diffusion Herrschaft und Organisation Gewalt und Krieg

Mit allem rechnen - zur Philosophie der Computersimulation Johannes Lenhard, 2015-03-30 Im vorliegenden Buch geht es um die methodologische und epistemologische Charakterisierung der Computersimulation Zu diesem Zweck werden Computermodelle vor der Kontrastfolie mathematischer Modelle betrachtet Eine Strategie der Mathematisierung zielt darauf ab komplexe Phänomene in idealisierter Form zu modellieren und so die Komplexität zu reduzieren Die Simulation markiert das Ende dieser Strategie Die Modelle werden nun selbst komplex und erhalten eine partielle Autonomie Insbesondere der Prozess der Simulationsmodellierung erfordert gegenüber traditioneller mathematischer Modellierung eine Transformation Als zentrale Merkmale der Simulationsmodellierung werden anhand typischer Beispiele analysiert Artifizialität Experimentieren Visualisierung Plastizität und epistemische Opazität Erst aus der Verknüpfung dieser Merkmale resultiert ein philosophisch

neuartiges Bild das wiederum zum Diskurs um das Verhältnis von Wissenschaft und Technik beiträgt *Handbuch Methoden der Organisationsforschung* Stefan Kühl, Petra Strodtholz, Andreas Taffertshofer, 2009-04-28 Das Handbuch verschafft einen umfassenden Überblick über die quantitativen und qualitativen Methoden der Organisationsforschung Die bergreifende Struktur die durchgängige Herangehensweise und der hohe Praxisbezug versetzen Wissenschaftler Studierende und insbesondere Praktiker in die Lage das Methodeninstrumentarium der Organisationsforschung gezielt für eigene Zwecke zu nutzen

Simulationen Sarah Jabri, 2023-09-14 Die hergebrachten Erkenntnismittel in Verwaltungsverfahren setzen typischerweise auf Erfahrung sie orientieren sich an tatsächlichen Beobachtungen aus der Vergangenheit um Schlussfolgerungen daraus zu ziehen Damit stoßen sie in einigen Rechtsbereichen jedoch an kognitive Grenzen Simulationen können hier Abhilfe schaffen indem sie fiktive Ersatzwirklichkeiten schaffen an denen experimentiert wird um die Ergebnisse sodann auf die Wirklichkeit rückzuübertragen Sarah Jabri untersucht die Charakteristika von Simulationen ihre Defizitbehaftung und die Funktionsabsicherung als Voraussetzung für die Verfassungsmässigkeit des Einsatzes von Simulationen in Verwaltungsverfahren

The Science and Art of Simulation I Michael M. Resch, Andreas Kaminski, Petra Gehring, 2017-04-07 The new book series The Science and Art of Simulation SAS addresses computer simulations as a scientific activity and engineering artistry in the sense of a techn The first volume is devoted to three topics 1 The Art of Exploring Computer Simulations Philosophy began devoting attention to computer simulations at a relatively early stage Since then the unquestioned point of view has been that computer simulation is a new scientific method the philosophy of simulation is therefore part of the philosophy of science The first section of this volume discusses this implicit unchallenged assumption by addressing from different perspectives the question of how to explore and how not to explore research on computer simulations Scientists discuss what is still lacking or considered problematic while philosophers draft new directions for research and both examine the art of exploring computer simulations 2 The Art of Understanding Computer Simulations The results of computer simulations are integrated into both political and social decisions It is implicitly assumed that the more detailed and consequently more realistic a computer simulation is the more useful it will be in decision making However this idea is by no means justified Different types of computer simulations have to be differentiated which in turn requires the specific skill of understanding computer simulation results The articles in this section examine the capabilities and limits of simulation results in political and social contexts exploring the art of understanding computer simulation results 3 The Art of Knowing through Computer Simulations The advent of computer simulation in today's scientific practices challenges the order of science What kind of knowledge is gained through computer simulations is the key question in this section Computer simulations are often compared to experiments or to arguments and the transformation of our traditional scientific notions might be more challenging than expected these Ideas are put forward in the third section to conceptualize the art of knowing through computer simulations *The Routledge Handbook of Philosophy of Scientific Modeling* Tarja

Knuuttila, Natalia Carrillo, Rami Koskinen, 2024-09-05 Models and modeling have played an increasingly important role in philosophy going back to the nineteenth century While philosophical interest in models has been remarkably lively over the last two decades there are still many underexplored questions The Routledge Handbook of Philosophy of Scientific Modeling is an outstanding reference source and guide to this fast growing area and is the first volume of its kind Comprised of 40 specially commissioned chapters by an international team of contributors the Handbook is organized into five clear parts Historical and General Perspectives Philosophical Accounts of Modeling Methodological Aspects Model Construction Evaluation and Calibration Related Topics Modeling in the Wild Within these parts the Handbook covers a diverse range of topics including historical perspectives on modeling the relationship between models theories representation idealization and understanding and related topics like big data simulation and statistical and computational modeling Different kinds of models are discussed for example network models financial models and climate and synthetic models The Routledge Handbook of Philosophy of Scientific Modeling is essential reading for students and scholars of philosophy of science formal epistemology and philosophy of social sciences It is also a valuable resource for those in related fields such as computer science and information technology Philosophy of Computing Björn Lundgren, Nancy Abigail Nuñez Hernández, 2022-05-04 This book features a unique selection of works presented at the 2019 annual international conference of the International Association for Computing and Philosophy IACAP Every contribution has been peer reviewed revised and extended The included chapters are thematically diverse topics include epistemology dynamic epistemic logic topology philosophy of science and computation game theory and abductive inferences automated reasoning and mathematical proofs computer simulations scientific modelling applied ethics pedagogy human robot interactions and big data algorithms and artificial intelligence The volume is a testament to the value of interdisciplinary approaches to the computational and informational turn We live in a time of tremendous development which requires rigorous reflection on the philosophical nature of these technologies and how they are changing the world How can we understand these technologies How do these technologies change our understanding of the world And how do these technologies affect our place as humans in the world These questions and more are addressed in this volume which is of interest to philosophers engineers and computer scientists alike **Der komplizierte Akteur** Thomas Kron, 2005 Komplexität in Organisationen Henning Bandte, 2007-08-23 Unter Berücksichtigung komplexitätswissenschaftlicher Denkmodelle analysiert Henning Bandte das Phänomen Komplexität aus organisationstheoretischer Perspektive Im Mittelpunkt steht die Notwendigkeit eines Paradigmenwandels um angemessen mit Komplexität in Organisationen umgehen zu können *The Oxford Handbook of Philosophy of Science* Paul Humphreys, Anjan Chakravartty, Margaret Morrison, Andrea Woody, 2016 This Handbook combines coverage of traditional areas in the philosophy of science such as causation explanation and theory structure with chapters on new areas such as philosophy of astronomy data complexity theory and emergence The articles are accessible to

scientifically educated non philosophers as well as to philosophers *Philosophisches Handbuch Künstliche Intelligenz*
 Klaus Mainzer, 2024-09-14 Das Handbuch schl gt die Br cke von der Grundlagenforschung zum Orientierungswissen Es greift
 damit die Bildungs und Ausbildungsziele der bundesweiten MINT Initiative auf die Mathematik M Informatik I
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 Human und Sozialwissenschaften zusammen Zun chst sollen die Grundlagen der KI Forschung methodisch und begrifflich
 gekl rt werden Philosophie wird als Grundlagenforschung verstanden die logisch und methodisch die Prinzipien von
 Wissenschaft und Technik untersucht Daher handelt es sich um ein Philosophisches Handbuch in diesem Fall der KI und
 nicht um eine Bindestrich Philosophie also ein Handbuch der Philosophie einer Einzelwissenschaft Denken und Wissen selber
 und das Selbstverst ndnis der Menschen ver ndern sich durch KI grundlegend **Mikrosimulationen** Marc
 Hannappel, Johannes Kopp, 2019-11-20 Der Band bietet einen berblick ber die methodischen und methodologischen
 Grundlagen der Mikrosimulation sowie einen Einblick in deren konkrete Anwendung am Beispiel ausgew hlte
 Forschungsarbeiten In Mikrosimulationsmodellen k nnen Wechselwirkungen zwischen sozialen Ph nomenen modelliert und
 quantifiziert werden Mikrosimulationen bieten daher ein gro es Potential zur Analyse gesellschaftlicher Wandlungsprozesse
 und k nnen damit als Erg nzung zu herk mmlichen statistischen Verfahren betrachtet werden Das Buch richtet sich an
 Interessierte aus Forschung und Lehre und soll dar ber hinaus Anreize f r den Einsatz dieses Simulationsansatzes geben

Quantitative Methods in Tourism Rodolfo Baggio, Jane Klobas, 2011-03-15 Tourism studies often deal with complex
 mixes of external and local factors and the attitudes perceptions and actions of tourists themselves In seeking to understand
 individual elements of this mix or the results of interactions between them tourism authorities managers and researchers
 often collect quantitative data but until now the few existing guides to understanding quantitative data have been either very
 simple or very complicated This book provides a guide to dealing with real world data and goes beyond the methods usually
 covered in introductory textbooks The first part considers key issues associated with using well known methods to produce
 valid and reliable models of real world phenomena emphasizing issues in data selection approaches to factor and cluster
 analysis and mathematical modelling using regression methods including logistic regression and structural equation
 modelling The second part covers new approaches to modelling maximum likelihood estimation simulation and agent based
 modelling Each chapter includes extensive references to additional reading and an appendix summarises the software
 introduced in the book The book provides many practical examples of applications to tourism research considers practical
 issues associated with application of quantitative techniques and discusses common pitfalls and how to identify and remedy
 them The result is a guide to quantitative methods in tourism that demystifies both simple and apparently complex

techniques and makes them more accessible to tourism researchers

Mathematical Modeling of Social Relationships
 Urszula Strawinska-Zanko, Larry S. Liebovitch, 2018-06-07 This edited volume presents examples of social science research projects that employ new methods of quantitative analysis and mathematical modeling of social processes This book presents the fascinating areas of empirical and theoretical investigations that use formal mathematics in a way that is accessible for individuals lacking extensive expertise but still desiring to expand their scope of research methodology and add to their data analysis toolbox Mathematical Modeling of Social Relationships professes how mathematical modeling can help us understand the fundamental compelling and yet sometimes complicated concepts that arise in the social sciences This volume will appeal to upper level students and researchers in a broad area of fields within the social sciences as well as the disciplines of social psychology complex systems and applied mathematics

Computer Simulations and the Changing Face of Scientific Experimentation Eckhart Arnold, Juan M. Durán, 2013-07-16 Computer simulations have become a central tool for scientific practice Their use has replaced in many cases standard experimental procedures This goes without mentioning cases where the target system is empirical but there are no techniques for direct manipulation of the system such as astronomical observation To these cases computer simulations have proved to be of central importance The question about their use and implementation therefore is not only a technical one but represents a challenge for the humanities as well In this volume scientists historians and philosophers join to examine computer simulations in scientific practice One central aim of the volume is to provide a multi perspective view on the topic Therefore the text includes philosophical studies on computer simulations as well as case studies from simulation practice and historical studies of the evolution of simulations as a research method The theoretical studies in this book discuss the epistemological relation between simulations and experiments as well as the empirical or non empirical status of data resulting from computer simulations The role of simulations in current scientific practice is examined in the cases of astronomy system biology nanoscale research and in the pharmaceutical industry The historical perspective is brought in by examining the rise of supercomputing as well as the exploding number of published simulation studies in some scientific fields The book concludes with critical reflections on the potential limitations and failures of computer simulations

Cellular Automata Alejandro Salcido, 2011-04-11 Cellular automata make up a class of completely discrete dynamical systems which have become a core subject in the sciences of complexity due to their conceptual simplicity easiness of implementation for computer simulation and their ability to exhibit a wide variety of amazingly complex behavior The feature of simplicity behind complexity of cellular automata has attracted the researchers attention from a wide range of divergent fields of study of science which extend from the exact disciplines of mathematical physics up to the social ones and beyond Numerous complex systems containing many discrete elements with local interactions have been and are being conveniently modelled as cellular automata In this book the versatility of cellular automata as models for a wide diversity of complex systems is underlined through the study of a number of outstanding

problems using these innovative techniques for modelling and simulation **Causality** Phyllis Illari, Federica Russo, 2014-10-02 Head hits cause brain damage but not always Should we ban sport to protect athletes Exposure to electromagnetic fields is strongly associated with cancer development does that mean exposure causes cancer Should we encourage old fashioned communication instead of mobile phones to reduce cancer rates According to popular wisdom the Mediterranean diet keeps you healthy Is this belief scientifically sound Should public health bodies encourage consumption of fresh fruit and vegetables Severe financial constraints on research and public policy media pressure and public anxiety make such questions of immense current concern not just to philosophers but to scientists governments public bodies and the general public In the last decade there has been an explosion of theorizing about causality in philosophy and also in the sciences This literature is both fascinating and important but it is involved and highly technical This makes it inaccessible to many who would like to use it philosophers and scientists alike This book is an introduction to philosophy of causality one that is highly accessible to scientists unacquainted with philosophy to philosophers unacquainted with science and to anyone else lost in the labyrinth of philosophical theories of causality It presents key philosophical accounts concepts and methods using examples from the sciences to show how to apply philosophical debates to scientific problems Introduction to Computational Social Science Claudio Cioffi-Revilla, 2013-12-31 This reader friendly textbook is the first work of its kind to provide a unified Introduction to Computational Social Science CSS Four distinct methodological approaches are examined in detail namely automated social information extraction social network analysis social complexity theory and social simulation modeling The coverage of these approaches is supported by a discussion of the historical context as well as by a list of texts for further reading Features highlights the main theories of the CSS paradigm as causal explanatory frameworks that shed new light on the nature of human and social dynamics explains how to distinguish and analyze the different levels of analysis of social complexity using computational approaches discusses a number of methodological tools presents the main classes of entities objects and relations common to the computational analysis of social complexity examines the interdisciplinary integration of knowledge in the context of social phenomena **How Do I Develop an Agent-Based Model?** Secchi, Davide, 2022-04-21 This clear and coherent book introduces agent based modelling ABM to those who are not familiar with nor have been previously exposed to computational simulation Featuring examples cases and models the book illustrates how ABM can and should be considered as a useful approach and technique for the study of management and organisational systems

As recognized, adventure as without difficulty as experience more or less lesson, amusement, as with ease as covenant can be gotten by just checking out a books **Modelling And Simulation In The Social Sciences From The Philosophy Of Science Point Of View** in addition to it is not directly done, you could acknowledge even more in relation to this life, vis--vis the world.

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