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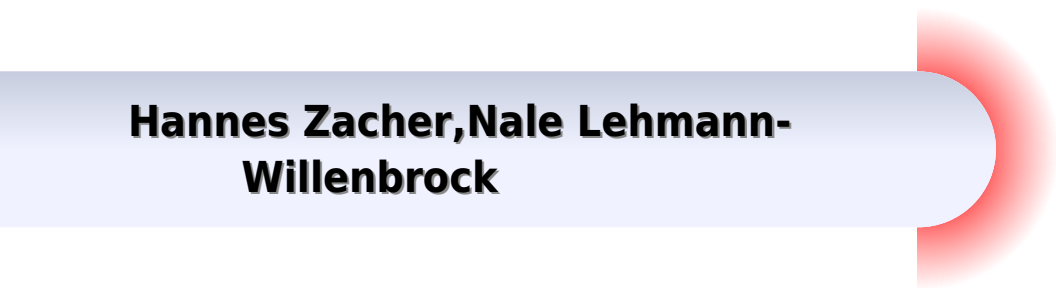
Agent-Based Simulation of Organizational Behavior

New Frontiers of Social Science Research

 Springer

Agent Based Simulation Of Organizational Behavior New Frontiers Of Social Science Research

Hannes Zacher, Nale Lehmann-Willenbrock



Agent Based Simulation Of Organizational Behavior New Frontiers Of Social Science Research:

Agent-Based Simulation of Organizational Behavior Davide Secchi, Martin Neumann, 2015-08-25 The aim of this book is to demonstrate how Agent Based Modelling ABM can be used to enhance the study of social agency organizational behavior and organizational management It derives from a workshop sponsored by the Society for the Study of Artificial Intelligence and the Simulation of Behavior AISB held at Bournemouth University Business School in 2014 on Modelling Organizational Behavior and Social Agency The contents of this book are divided into four themes Perspectives Modeling Organizational Behavior Philosophical and Methodological Perspective and Modeling Organized Crime and Macro Organizational Phenomena ABM is a particular and advanced type of computer simulation where the focus of modeling shifts to the agent rather than to the system This allows for complex and more realistic representations of reality facilitating an innovative socio cognitive perspective on organizational studies The editors and contributing authors claim that the use of ABM may dramatically expand our understanding of human behavior in organizations This is made possible because of a the computational power made available by technological advancements b the relative ease of the programming c the ability to borrow simulation practices from other disciplines and d the ability to demonstrate how the ABM approach clearly enables a socio cognitive perspective on organizational complexity Showcasing contributions from academics and researchers of various backgrounds and discipline this volumes provides a global interdisciplinary perspective

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

Organizational Cognition Davide Secchi, Rasmus Gahrn-Andersen, Stephen J. Cowley, 2022-09-30 Cognition is usually associated with brain activity Undoubtedly some brain activity is necessary for it to function However the last thirty years have revolutionized the way we intend and think about cognition These developments allow us to think of cognition as distributed in the sense that it needs tools artifacts objects and other external entities to allow the brain to operate properly Organizational Cognition The Theory of Social Organizing takes this perspective and applies it to the organization by introducing a model that defines the elements that allow cognition to work This model shows that cognition needs the combined and simultaneous presence of micro aspects i e the biological individual and macro super structural elements e g organizational climate culture norms values rules These two become practice of cognition as they materialize in a meso domain this is any action that allows individuals to perform their daily duties Due to the micro meso macro interactions this has been called the 3M Model Most of what happens in the meso domain relates to exchanges between two or more people i e it is a social activity This is usually mentioned in the perspectives above but it is rarely explored By bringing meso activities to the center of cognition the book develops and presents the Theory of Social

Organizing Not only this is useful to organizational scholars but it also opens a new path for cognition research

Complexity and Emergence Sergio Albeverio, Elisa Mastrogiacomio, Emanuela Rosazza Gianin, Stefania Ugolini, 2022-05-07 This book includes contributions about mathematics physics philosophy of science economics and finance and resulted from the Summer School Complexity and Emergence Ideas Methods with a Special Attention to Economics and Finance held in Lake Como School of Advanced Studies on 22-27 July 2018 The aim of the book is to provide useful instruments from the theory of complex systems both on the theoretical level and the methodological ones profiting from knowledge and insights from leading experts of different communities It moves from the volume editors conviction that to achieve progress in understanding socio-economical as well as ecological problems of our complex world such preparation is needed together with a critical reconsideration of our basic scientific and economical approach The potential readers are primarily master and doctorate students of mathematics information sciences theoretical physics and economics as well as research workers in those areas who want to enlarge their spectrum of knowledge towards the area of complexity and emergence Since ideas and methods of the theory of complex systems also apply to other areas from engineering and architecture to biology and medicine e.g. students and research workers from those areas will also profit from this book Cognitive Aids in Strategy Kristian J. Sund, Robert J. Galavan, Robin Gustafsson, 2023-10-30 Cognitive Aids in Strategy brings together contributions by twelve strategy scholars reflecting on a range of cognitive aids and their theoretical foundations focusing attention on the importance of cognitive aids in strategy and inspiring further research *Information and Communication Technologies (ICT) in Economic Modeling* Federico Cecconi, Marco Campennì, 2019-07-30 This book presents the effects of integrating information and communication technologies ICT and economic processes in macroeconomic dynamics finance marketing industrial policies and in government economic strategy The text explores modeling and applications in these fields and also describes in a clear and accessible manner the theories that guide the integration among information technology IT telecommunications and the economy while presenting examples of their applications Current trends such as artificial intelligence machine learning and big data technologies used in economics are also included This volume is suitable for researchers practitioners and students working in economic theory and the computational social sciences *Introducing the Oscillations Based Paradigm* Darius Plikynas, 2016-06-16 The book presents a conceptually novel oscillations based paradigm the Oscillation Based Multi Agent System OSIMAS aimed at the modelling of agents and their systems as coherent stylized neurodynamic processes This paradigm links emerging research domains via coherent neurodynamic oscillation based representations of the individual human mind and society as a coherent collective mind states Thus this multidisciplinary paradigm delivers an empirical and simulation research framework that provides a new way of modelling the complex dynamics of individual and collective mind states This book addresses a conceptual problem the lack of a multidisciplinary connecting paradigm which could link fragmented research in the fields of neuroscience artificial intelligence AI multi agent

system MAS and the social network domains The need for a common multidisciplinary research framework essentially arises because these fields share a common object of investigation and simulation i e individual and collective human behavior Although the fields of research mentioned above all approach this from different perspectives their common object of investigation unites them By putting the various pathways of research as they are interrelated into perspective this book provides a philosophical underpinning experimental background and modelling tools that the author anticipates will reveal new frontiers in multidisciplinary research Fundamental investigation of the implicit oscillatory nature of agents mind states and social mediums in general can reveal some new ways of understanding the periodic and nonperiodic fluctuations taking place in real life For example via agent states related diffusion properties we could investigate complex economic phenomena like the spread of stock market crashes currency crises speculative oscillations bubbles and crashes social unrest recessionary effects sovereign defaults etc All these effects are closely associated with social fragility which follows and is affected by cycles such as production political business and financial Thus the multidisciplinary OSIMAS paradigm can yield new knowledge and research perspectives allowing for a better understanding of social agents and their social organization principles

Multiple Systems Gianfranco Minati, Maria Pietronilla Penna, 2024-01-04 This book presents the proceedings of the Eighth National Conference of the Italian Systems Society The contributions underline the need for Systemics and Systems Science in order to address multiple changing systems involving several coherent versions The conference focused on identifying discussing and understanding possible interrelationships between fundamental theoretical advances in different disciplines Given their scope these proceedings represent a valuable asset for all researchers whose work involves multiple systems

Distributed cognition in learning and behavioral change – based on human and artificial intelligence Dietrich Albert, Tomoko Kojiri, Xiangen Hu, Paul Seitlinger, 2024-01-08

Social Services Disrupted Flavia Martinelli, Anneli Anttonen, Margitta Mätzke, 2017-11-24 This book revives the discussion on public social services and their redesign with a focus on services relating to care and the social inclusion of vulnerable groups providing rich information on the changes that occurred in the organisation and supply of public social services over the last thirty years in different European places and service fields Despite the persisting variety in social service models three shared trends emerge public sector disengagement vertical re scaling of authority and horizontal re mix in the supply system The consequences of such changes are evaluated from different perspectives governance social and territorial cohesion labour market gender and are eventually deemed disruptive in both economic and social terms The policy implications of the restructuring are also explored This title will be Open Access on Elgaronline com

Simulating Social Complexity Bruce Edmonds, Ruth Meyer, 2017-11-24 This volume examines all aspects of using agent or individual based simulation This approach represents systems as individual elements having their own set of differing states and internal processes The interactions between elements in the simulation represent interactions in the target systems What makes this social is that it can represent an

observed society Social systems include all those systems where the components have individual agency but also interact with each other This includes human societies and groups but also increasingly socio technical systems where the internet based devices form the substrate for interaction These systems are central to our lives but are among the most complex known This poses particular problems for those who wish to understand them The complexity often makes analytic approaches infeasible but on the other hand natural language approaches are also inadequate for relating intricate cause and effect This is why individual and agent based computational approaches hold out the possibility of new and deeper understanding of such systems This handbook marks the maturation of this new field It brings together summaries of the best thinking and practices in this area from leading researchers in the field and constitutes a reference point for standards against which future methodological advances can be judged This second edition adds new chapters on different modelling purposes and applying software engineering methods to simulation development Revised existing content will keep the book up to date with recent developments This volume will help those new to the field avoid reinventing the wheel each time and give them a solid and wide grounding in the essential issues It will also help those already in the field by providing accessible overviews of current thought The material is divided into four sections Introduction Methodology Mechanisms and Applications Each chapter starts with a very brief section called Why read this chapter followed by an abstract which summarizes the content of the chapter Each chapter also ends with a section on Further Reading Whilst sometimes covering technical aspects this second edition of *Simulating Social Complexity* is designed to be accessible to a wide range of researchers including both those from the social sciences as well as those with a more formal background It will be of use as a standard reference text in the field and also be suitable for graduate level courses

Cambridge Handbook of Routine Dynamics Martha S. Feldman, Luciana D'Adderio, Brian T. Pentland, Katharina Dittrich, Claus Rerup, David Seidl, 2021-12-16 A comprehensive introduction and overview of research in Routine Dynamics written by the central researchers in the field

Cognition Beyond the Brain Stephen J. Cowley, Frédéric Vallée-Tourangeau, 2017-03-28 This book challenges neurocentrism by advocating a systemic view of cognition based on investigating how action shapes the experience of thinking placing interactivity at its heart This systemic viewpoint makes three main claims First that many elaborate cognitive skills like language problem solving and human computer interaction HCI are based in sense saturated coordination or interactivity Second interactivity produces a tightly woven scaffold of resources some internal to the agent and others external that elevates and transforms thinking Third human agents entwine brains bodies and their surroundings as they manage multi scalar dynamics This new edition continues to demonstrate how a systemic perspective casts a productive light on thinking in applied domains such as crime scene analysis the use of information technology in construction and computer mediated trusts and presents new studies on the cognitive ecology of the web multi scalar temporal and organisational cognition and the importance of interactive material engagement in digital architecture Authors

use various scales of the systemic viewpoint to illustrate how bodies and artefacts shape thinking but in all cases the experience of materiality is meshed with activity that involves the world beyond the body Cognition Beyond the Brain is a valuable reference for researchers practitioners and graduate students within the fields of Computer Science Psychology Linguistics and Cognitive Sciences *Methodological Challenges and Advances in Managerial and Organizational Cognition* Robert J. Galavan,Kristian J. Sund,Gerard P. Hodgkinson,2017-12-05 Managerial and organizational cognition has sustained and gained the interest of researchers for over a quarter of a century This volume takes stock of the methodological accomplishments of the MOC field in recent years and it sets the agenda for the next phase of its development

Computational Organizational Cognition Davide Secchi,2021-08-13 Computational Organizational Cognition presents simulations to clearly assess the advantages of agent based computational organizational cognition AOC for both theory and practice demonstrating how AOC is an essential instrument to explore understand and analyze the inner complexities of organizational cognition *Business Plasticity Through Disorganization* Dinuka B. Herath,2019-04-24 Disorganization occurs in all areas of modern business This book presents a novel approach to both academics and practitioners on how to break the shackles of rigidity and eliminate our fear of disorganization *Humanistic Tourism* Maria Della Lucia,Ernestina Giudici,2020-12-29 Human dignity has experienced limited attention in tourism studies The interlinked dimensions of dignity in tourism urgently ask for broad avenues of future research as tourism is both an information intensive industry and an experience good resulting from the relationship and co creation processes involving hosts and guests in different political socio economic cultural and environmental contexts These contexts play a role in how an individual s values norms and experiences may be experienced in tourism This edited book is one of the first attempts to apply to tourism a humanistic management approach entailing a re discovery of the value of human life dignity and awareness of the ethical dimensions of work The book develops awareness of the contemporary relevance of the human dignity concept to interpret and manage the weaknesses of traditional approaches to tourism and cope with the challenges and new scenarios including the current COVID 19 pandemic crisis It presents ethical values and norms as both foundations and vehicles to dignify tourism stakeholders vision and mission policy strategies and practices as well as people tourist beliefs attitudes and behaviors It grounds humanistic education as a pervasive mechanism to innovate tourism management contents and practices by offering to different targets new educational and training formats or framing differently traditional ones Presenting both a critical and a positive approach to tourism management the diversity of disciplinary approaches case studies and examples makes the book attractive to a variety of readers including tourism scholars researchers practitioners and postgraduate students of management and organization disciplines **New Frontiers in the Study of Social Phenomena** Federico Cecconi,2016-03-11 This book studies social phenomena in a new way by making judicious use of computer technology The book addresses the entire spectrum of classic studies in social science from experiments to the computational models with a

multidisciplinary approach The book is suitable for those who want to get a picture of what it means to do social research today and also to get an indication of the major open issues The book is connected to a database of code for simulations experimental data and allows to activate a subscription to a teaching tool using NetLogo a programming language widely used in the social studies The authors are researchers with first hand experience research projects both basic and applied The work will be useful for those who want to understand more of the social economic and political phenomena via computer applications

Work, Organizational, and Business Psychology Hannes Zacher, Nale Lehmann-Willenbrock, 2022-11-30 Work organizational and business psychology is an applied empirical science and occupational field Written by 20 leading experts in this area the chapters in this book provide a comprehensive overview of classic and contemporary theories methods and findings Topics include individual differences and performance vocational choices and career development the work nonwork interface work stress and well being occupational safety positive and counterproductive work behavior work analysis and work design personnel selection and development work attitudes and motivation negotiation leadership teams entrepreneurship and organizational development The book provides a thorough introduction to work organizational and business psychology for students in Bachelor and Master programs at universities and universities of applied sciences It also provides a useful resource for lecturers as well as practitioners in companies and other organizations

Frontiers of Engineering National Academy of Engineering, 2007-02-08 This volume includes 15 papers from the National Academy of Engineering s 2006 U S Frontiers of Engineering USFOE Symposium held in September 2006 USFOE meetings bring together 100 outstanding engineers ages 30 to 45 to exchange information about leading edge technologies in a range of engineering fields The 2006 symposium covered four topic areas intelligent software systems and machines the nano bio interface engineering personal mobility for the 21st century and supply chain management A paper by dinner speaker Dr W Dale Compton Lillian M Gilbreth Distinguished Professor of Industrial Engineering Emeritus is also included The papers describe leading edge research on commercializing auditory neuroscience future developments in bionanotechnology sustainable urban transportation and managing disruptions to supply chains among other topics Appendixes include information about contributors the symposium program and a list of meeting participants This is the twelfth volume in the USFOE series

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