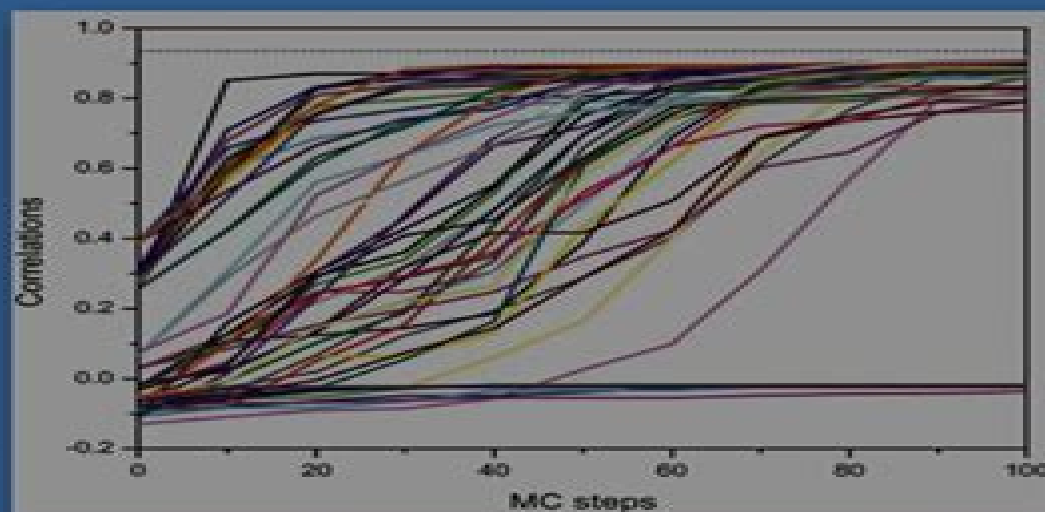
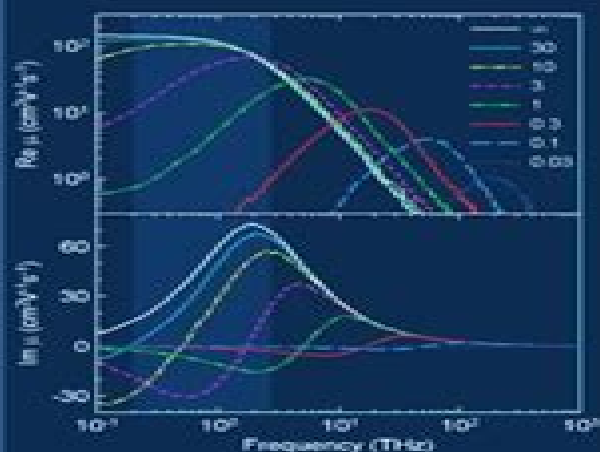


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Agent-Based Computational Economics Using NetLogo



Agent Based Computational Economics Using Netlogo

**Alison J. Heppenstall, Andrew T.
Crooks, Linda M. See, Michael Batty**

Agent Based Computational Economics Using Netlogo:

Agent-Based Computational Economics Using NetLogo Romulus-Catalin Damaceanu, 2013-02-01 Agent based Computational Economics using NetLogo explores how researchers can create use and implement multi agent computational models in Economics by using NetLogo software platform Problems of economic science can be solved using multi agent modelling MAM This technique uses a computer model to simulate the actions and interactions of autonomous entities in a network in order to analyze the effects on the entire economic system MAM combines elements of game theory complex systems emergence and evolutionary programming The Monte Carlo method is also used in this e book to introduce random elements The 11 models presented in this text simulate the simultaneous operations of several agents in an attempt to recreate and predict complex economic phenomena This e book explains the topic in a systematic manner starting with an introduction for readers followed subsequently by methodology and implementation using NetLogo The volume ends with conclusions based on the results of the experiments presented The e book is intended as a concise and vital resource for economists applied mathematicians social sciences scientists systems analysts operations researchers and numerical analysts

Agent-based Computational Economics Using Netlogo ,2013 Industry And Labor Dynamics: The Agent-based Computational Economics Approach - Proceedings Of The Wild@ace 2003 Workshop Matteo Richiardi, Roberto Leombruni, 2004-11-22 This book presents the contributions to the first Wild Ace conference The acronym stands for Workshop on Industrial and Labor Dynamics The Agent Based Computational Approach and it has been the first event ever focusing on the very promising use of the agent based simulation approach for investigation of labor economics and industrial organization issues Agent based models are computer models in which a multitude of agents each embodied in a specific software code interact These agents can represent individuals households firms institutions etc Moreover special agents can be added to observe and monitor individual and collective behavior One of the main purpose of writing an ACE model is to gain intuitions on the two way feedback between the microstructure and the macrostructure of a phenomenon of interest How is it that simple aggregate regularities may arise from individual disorder Or that a nice structure at an individual level may lead to a complete absence of regularity in the aggregate How is it that the complex interaction of very simple individuals may lead to surprisingly complicated aggregate dynamics Or that sophisticated agents may be unable to organize themselves in any interesting way The book includes contributions by some of the most distinguished researchers in the field such as the economists Alan Kirman Giovanni Dosi Leigh Tesfatsion and Mauro Gallegati and the sociologist Nigel Gilbert Agent-Based Modelling in Economics Lynne Hamill, Nigel Gilbert, 2016-01-19 Agent based modelling in economics Lynne Hamill and Nigel Gilbert Centre for Research in Social Simulation CRESS University of Surrey UK New methods of economic modelling have been sought as a result of the global economic downturn in 2008 This unique book highlights the benefits of an agent based modelling ABM approach It demonstrates how ABM can easily handle complexity heterogeneous

people households and firms interacting dynamically Unlike traditional methods ABM does not require people or firms to optimise or economic systems to reach equilibrium ABM offers a way to link micro foundations directly to the macro situation Key features Introduces the concept of agent based modelling and shows how it differs from existing approaches Provides a theoretical and methodological rationale for using ABM in economics along with practical advice on how to design and create the models Each chapter starts with a short summary of the relevant economic theory and then shows how to apply ABM Explores both topics covered in basic economics textbooks and current important policy themes unemployment exchange rates banking and environmental issues Describes the models in pseudocode enabling the reader to develop programs in their chosen language Supported by a website featuring the NetLogo models described in the book Agent based Modelling in Economics provides students and researchers with the skills to design implement and analyze agent based models Third year undergraduate master and doctoral students faculty and professional economists will find this book an invaluable resource

Applied Computational Mathematics in Social Sciences Romulus-Catalin Damaceanu,2010 Applied Computational Mathematics in Social Sciences adopts a modern scientific approach that combines knowledge from mathematical modeling with various aspects of social science Special algorithms can be created to simulate an artificial society and a detailed analysis can subsequently be used to project social realities This Ebook specifically deals with computations using the NetLogo platform and is intended for researchers interested in advanced human geography and mathematical modeling studies

Agent-Based and Individual-Based Modeling Steven F. Railsback,Volker Grimm,2025-06-03 The essential textbook on agent based modeling now fully updated and expanded Agent Based and Individual Based Modeling has become the standard textbook on the subject for classroom use and self instruction Drawing on the latest version of NetLogo and fully updated with new examples exercises and an enhanced text for easier comprehension this is the essential resource for anyone seeking to understand how the dynamics of biological social and other complex systems arise from the characteristics of the agents that make up these systems Steven Railsback and Volker Grimm lead students stepwise through the processes of designing programming documenting and doing scientific research with agent based models focusing on the adaptive behaviors that make these models necessary They cover the fundamentals of modeling and model analysis introduce key modeling concepts and demonstrate how to implement them using NetLogo They also address pattern oriented modeling an invaluable strategy for modeling real world problems and developing theory This accessible and authoritative book focuses on modeling as a tool for understanding real complex systems It explains how to pose a specific question use observations from actual systems to design models write and test software and more A hands on introduction that guides students from conceptual design to computer implementation to analysis Filled with new examples and exercises and compatible with the latest version of NetLogo Ideal for students and researchers across the natural and social sciences Written by two leading practitioners Supported by extensive instructional materials at www.railsback.grimm.abm.book.com

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 Handbook of Computational Economics Leigh Tesfatsion, Kenneth L. Judd, 2006-05-15 The explosive growth in computational power over the past several decades offers new tools and opportunities for economists This handbook volume surveys recent research on Agent based Computational Economics ACE the computational study of economic processes modeled as dynamic systems of interacting agents Empirical referents for agents in ACE models can range from individuals or social groups with learning capabilities to physical world features with no cognitive function Topics covered include learning empirical validation network economics social dynamics financial markets innovation and technological change organizations market design automated markets and trading agents political economy social ecological systems computational laboratory development and general methodological issues Every volume contains contributions from leading researchers Each Handbook presents an accurate self contained survey of a particular topic The series provides comprehensive and accessible surveys

Artificial Economics Ruben Mercado, 2021-11-04 An introductory overview of the methods models and interdisciplinary links of artificial economics Addresses the differences between the assumptions and methods of artificial economics and those of mainstream economics This is one of the first books to fully address in an intuitive and conceptual form this new way of doing economics

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 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 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 **Economics for a Fairer Society** Tim Gooding, 2019-04-23 This Palgrave Pivot presents experiments that reveal core dynamics of trade in a complex system Monetary trade is stripped of all its complications and placed in agent based models a complexity research tool capable of reproducing emergent behaviour and evolution Included are ground breaking repeatable experiments exploring the impact of evolutionary prerequisites empirically present in markets Isolating the core dynamics of trade results in very simple agent based models However decades of complexity research demonstrate that even the simplest systems result in emergent behaviour that is extremely difficult to anticipate Readers who are only familiar with the linear system theories and models used to train almost all undergraduate economics students might be surprised to witness price detaching from supply and demand and extreme poverty and wealth arising in trade systems populated by agents with equal ability and opportunity Watch as empirical evolutionary prerequisites are introduced and price patterns characterising two different markets asset markets and speculative markets emerge irrespective of supply and demand In addition to laying the groundwork of monetary trade in a complex system more complicated models feature mortal reproductive agents Including living populations in economic models reveal how the complexity characteristics of our market economy are impacting impoverishment and starvation This book invites anyone interested in economics to join the growing ranks of people who are fascinated by the insights offered by complexity research

The Physics of the Law: Legal Systems Through the Prism of Complexity Science Pierpaolo Vivo, Daniel Martin Katz, J. B. Ruhl, 2022-05-05 **Advanced HPC-based Computational Modeling in Biomechanics and Systems Biology** Mariano Vázquez, Peter V. Coveney, Hernan Edgardo Grecco, Alfons Hoekstra, Bastien Chopard, 2019-04-04 This eBook is a collection of articles from a Frontiers Research Topic Frontiers Research Topics are very popular trademarks of the Frontiers

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Advances in Information Technologies, Telecommunication, and Radioelectronics Sergey I. Kumkov, Sergey Shabunin, Stavros Syngellakis, 2020-02-04 The book is devoted to problems of information technologies description and processing signals especially ones corrupted by noises and disturbances and to problems of telecommunications and production of advanced equipment in radio electronics developed at the Ural Federal University Ekaterinburg Russia It describes the contemporary state of the art and the development of methods for solving problems of signal processing and building equipment for practical solutions The volume is mainly a collection of ideas techniques and results in the field of video information technologies and various related applications of numerical methods It comprises 18 chapters grouped under four main topics image processing and computer vision signal processing and navigation simulation of some practical processes and computations for antennas and applications of microwaves The research described in this volume is addressed to a wide audience of scientists engineers and mathematicians involved in the above mentioned four scientific topics

Handbook of Research Methods and Applications in Heterodox Economics The Late Frederic S. Lee, Bruce Cronin, 2016-04-29 Despite the important methodological critiques of the mainstream offered by heterodox economics the dominant research method taught in heterodox programmes remains econometrics This compelling Handbook provides a comprehensive introduction to a range of alternative research methods invaluable for analysing the data prominent in heterodox studies Providing a solid basis for a mixed methods approach to economic investigations the expertly crafted contributions are split into three distinct sections philosophical foundation and research strategy research methods and data collection and applications Introductions to a host of invaluable methods such as survey historical ethnographic experimental and mixed approaches together with factor cluster complex and social network analytics are complemented by descriptions of applications in practice Practical and expansive this Handbook is highly pertinent for students and scholars of economics particularly those dedicated to heterodox approaches as it provides a solid reference for mixed methods not available in mainstream economics research methods courses [The Blockchain Alternative](#) Kariappa Bheemaiah, 2017-02-26 Examine what would happen if we were to deploy blockchain technology at the sovereign level and use it to create a decentralized cashless economy This book explains how finance and economics work today and how the convergence of various technologies related to the financial sector can help us find solutions to problems such as excessive debt creation banks getting too big to fail and shadow banking The Blockchain Alternative offers sensible corrections to outdated and incorrect dogmas such as the efficient markets hypothesis and rational expectations theory You ll also be introduced to universal basic

income the consequences of going cashless why complexity economics needs to be understood and what kinds of tools and theories you ll need to redefine the existing definition of capitalism While the book does discuss technologies and methods that are primed for our future a number of references are made to economic history and the works of great thinkers from a different era You ll see how the blockchain can be used to deploy solutions that were devised in the past but which can serve as the antidote to our current economic malaises You ll discover that what is required today is not an adaptation of the old theories but a new methodology that is suited to this new era Without undertaking such an endeavor one will always be burdened with a definition of capitalism that is out of kilter with the evolution of our digital humanity What would this mean to monetary and fiscal policy market structure and our current understanding of economics More importantly would we need to change our current understanding of capitalism And if we were to change our perceptions what would the future version look like This book answers these questions and analyses some of the most pertinent issues of our generation What You ll Learn Examine fractional banking debt and the financialization of assets Gain a firm understanding of the too big to fail theory smart contracts and Fintech Review economics and agent based modelling Use the blockchain and complexity economics to rethink economics and capitalistic systems Who This Book Is For The primary audience is bankers and other finance professionals policy makers and students of finance and economics The secondary audience is anyone seeking a deeper understanding of the current financial system the blockchain and the future of capitalism Praise for The Blockchain Alternative a bold and pioneering effort to make sense of how emerging digital technologies might be used to reshape public policies including macroeconomic and social policies in basic ways Everyone interested in this very important emerging question should read this book Dr Sanjay G Reddy Associate Professor of Economics at The New School for Social Research and Research Associate of the Initiative for Policy Dialogue at Columbia University Writing on blockchain today is analogous to writing about the internet before it became massively distributed The book pushes us to think about the quantum leap that this technology may infer to our capitalist model if scaled at the pace described by the book Written with the support of strong empirical models but also with an open mind towards the future this is a must read for anyone interested in becoming part of the new economic infrastructure Dr Mark Esposito Harvard University s Division of Continuing Education Judge Business School University of Cambridge With a rigorously balanced dosage of versatility and rationale we are allured into a multifaceted trajectory across ingrained yet functionally arcane economic models only to plunge into a conceptually revolutionary realm which irreversibly stimulates us into envisaging a fascinating novel scheme of world order Ioana Surpateanu Political Adviser to the European Parliament If there is only one book that I am reading on how blockchain is going to change our lives it will have to be The Blockchain Alternative Dr Terence Tse Associate Professor of Finance ESCP Europe Business School

Agent-Based Modelling of Socio-Technical Systems Koen H. van Dam, Igor Nikolic, Zofia Lukszo, 2012-10-09 Decision makers in large scale interconnected network systems require simulation models for decision

support The behaviour of these systems is determined by many actors situated in a dynamic multi actor multi objective and multi level environment How can such systems be modelled and how can the socio technical complexity be captured Agent based modelling is a proven approach to handle this challenge This book provides a practical introduction to agent based modelling of socio technical systems based on a methodology that has been developed at TU Delft and which has been deployed in a large number of case studies The book consists of two parts the first presents the background theory and methodology as well as practical guidelines and procedures for building models In the second part this theory is applied to a number of case studies where for each model the development steps are presented extensively preparing the reader for creating own models

Fundamentals of Service Systems Jorge Cardoso,Hansjörg Fromm,Stefan Nickel,Gerhard Satzger,Rudi Studer,Christof Weinhardt,2015-12-12 This textbook addresses the conceptual and practical aspects of the various phases of the lifecycle of service systems ranging from service ideation design implementation analysis improvement and trading associated with service systems engineering Written by leading experts in the field this indispensable textbook will enable a new wave of future professionals to think in a service focused way with the right balance of competencies in computer science engineering and management Fundamentals of Service Systems is a centerpiece for a course syllabus on service systems Each chapter includes a summary a list of learning objectives an opening case and a review section with questions a project description a list of key terms and a list of further reading bibliography All these elements enable students to learn at a faster and more comfortable pace For researchers teachers and students who want to learn about this new emerging science Fundamentals of Service Systems provides an overview of the core disciplines underlying the study of service systems It is aimed at students of information systems information technology and business and economics It also targets business and IT practitioners especially those who are looking for better ways of innovating designing modeling analyzing and optimizing service systems

Focus on Urban and Regional Economics Lawrence Yee,2006 If all politics are local then all economics are regional and local Globalisation for all its mystery and so called inevitability has its foundations and bloodlines in urban and regional economics The economic impacts of poverty housing transportation education and crime are included This new book includes within its scope multiplier and impact analysis input output models growth theory migration urban and regional labour markets urban and regional public policy regional devolution small firms policy and foreign direct investment

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