Models with Heterogeneous Agents
Introduction

Wouter J. Den Haan
London School of Economics

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Wendy Carlin,David W. Soskice

Models With Heterogeneous Agents Introduction:

Computational Economics: Heterogeneous Agent Modeling Cars Hommes,Blake LeBaron,2018-06-27 Handbook of Computational Economics Heterogeneous Agent Modeling Volume Four focuses on heterogeneous agent models emphasizing recent advances in macroeconomics including DSGE finance empirical validation and experiments networks and related applications Capturing the advances made since the publication of Volume Two Tesfatsion Judd 2006 it provides high level literature with sections devoted to Macroeconomics Finance Empirical Validation and Experiments Networks and other applications including Innovation Diffusion in Heterogeneous Populations Market Design and Electricity Markets and a final section on Perspectives on Heterogeneity Helps readers fully understand the dynamic properties of realistically rendered economic systems Emphasizes detailed specifications of structural conditions institutional arrangements and behavioral dispositions Provides broad assessments that can lead researchers to recognize new synergies and opportunities

Introduction to Quantitative Macroeconomics Using Julia Petre Caraiani,2018-08-29 Introduction to Quantitative Macroeconomics Using Julia From Basic to State of the Art Computational Techniques facilitates access to fundamental techniques in computational and quantitative macroeconomics It focuses on the recent and very promising software Julia which offers a MATLAB like language at speeds comparable to C Fortran also discussing modeling challenges that make quantitative macroeconomics dynamic a key feature that few books on the topic include for macroeconomists who need the basic tools to build solve and simulate macroeconomic models This book neatly fills the gap between intermediate macroeconomic books and modern DSGE models used in research Combines an introduction to Julia with the specific needs of macroeconomic students who are interested in DSGE models and PhD students and researchers interested in building DSGE models Teaches fundamental techniques in quantitative macroeconomics by introducing theoretical elements of key macroeconomic models and their potential algorithmic implementations Exposes researchers working in macroeconomics to state of the art computational techniques for simulating and solving DSGE models Introduction to Agent-Based Economics Mauro Gallegati,Antonio Palestrini,Alberto Russo,2017-08-03 Introduction to Agent Based Economics describes the principal elements of agent based computational economics ACE It illustrates ACE s theoretical foundations which are rooted in the application of the concept of complexity to the social sciences and it depicts its growth and development from a non linear out of equilibrium approach to a state of the art agent based macroeconomics The book helps readers gain a better understanding of the limits and perspectives of the ACE models and their capacity to reproduce economic phenomena and empirical patterns Reviews the literature of agent based computational economics Analyzes approaches to agents expectations Covers one of the few large macroeconomic agent based models the Modellaccio Illustrates both analytical and computational methodologies for producing tractable solutions of macro ACE models Describes diffusion and amplification mechanisms Depicts macroeconomic experiments related to ACE implementations *An Introduction to Agent-Based*

Modeling Uri Wilensky,William Rand,2015-04-17 A comprehensive and hands on introduction to the core concepts methods and applications of agent based modeling including detailed NetLogo examples The advent of widespread fast computing has enabled us to work on more complex problems and to build and analyze more complex models This book provides an introduction to one of the primary methodologies for research in this new field of knowledge Agent based modeling ABM offers a new way of doing science by conducting computer based experiments ABM is applicable to complex systems embedded in natural social and engineered contexts across domains that range from engineering to ecology An Introduction to Agent Based Modeling offers a comprehensive description of the core concepts methods and applications of ABM Its hands on approach with hundreds of examples and exercises using NetLogo enables readers to begin constructing models immediately regardless of experience or discipline The book first describes the nature and rationale of agent based modeling then presents the methodology for designing and building ABMs and finally discusses how to utilize ABMs to answer complex questions Features in each chapter include step by step guides to developing models in the main text text boxes with additional information and concepts end of chapter explorations and references and lists of relevant reading There is also an accompanying website with all the models and code   *Dynamic Optimization in Environmental Economics* Elke Moser,Willi Semmler,Gernot Tragler,Vladimir M. Veliov,2014-07-08 The book presents new developments in the dynamic modeling and optimization methods in environmental economics and provides a huge range of applications dealing with the economics of natural resources the impacts of climate change and of environmental pollution and respective policy measures The interrelationship between economic activities and environmental quality the development of cleaner technologies the switch from fossil to renewable resources and the proper use of policy instruments play an important role along the path towards a sustainable future Biological physical and economic processes are naturally involved in the subject and postulate the main modelling simulation and decision making tools the methods of dynamic optimization and dynamic games   Simulating Interacting Agents and Social Phenomena Keiki Takadama,Claudio Cioffi-Revilla,Guillaume Deffuant,2010-09-02 Agent based modeling and social simulation have emerged as an interdisciplinary area of social science that includes computational economics organizational science social dynamics and complex systems This area contributes to enriching our understanding of the fundamental processes of social phenomena caused by complex interactions among agents Bringing together diverse approaches to social simulation and research agendas this book presents a unique collection of contributions from the Second World Congress on Social Simulation held in 2008 at George Mason University in Washington DC USA This book in particular includes articles on norms diffusion social networks economy markets and organizations computational modeling and programming environments providing new hypotheses and theories new simulation experiments compared with various data sets and new methods for model design and development These works emerged from a global and interdisciplinary scientific community of the three regional scientific associations for social simulation the North American Association for

Computational Social and Organizational Science NAACSOS now the Computational Social Science Society CSSS the European Social Simulation Association ESSA and the Pacific Asian Association for Agent bBased Approach in Social Systems Sciences PAAA **Nonlinear Dynamical Systems in Economics** Marji Lines,2007-03-23 Many problems in theoretical economics are mathematically formalized as dynam ical systems of difference and differential equations In recent years a truly open approach to studying the dynamical behavior of these models has begun to make its way into the mainstream That is economists formulate their hypotheses and study the dynamics of the resulting models rather than formulating the dynamics and studying hypotheses that could lead to models with such dynamics This is a great progress over using linear models or using nonlinear models with a linear approach or even squeezing economic models into well studied nonlinear systems from other fields There are today a number of economic journals open to publishing this type of work and some of these have become important There are several societies which have annual meetings on the subject and participation at these has been growing at a good rate And of course there are methods and techniques avail able to a more general audience as well as a greater availability of software for numerical and graphical analysis that makes this type of research even more excit ing The lecturers for the Advanced School on Nonlinear Dynamical Systems in Economics who represent a wide selection of the research areas to which the the ory has been applied agree on the importance of simulations and computer based analysis The School emphasized computer applications of models and methods and all contributors ran computer lab sessions *Macroeconomics* Wendy Carlin,David W. Soskice,2024 At the cutting edge of the subject area the authors bring the macroeconomics that researchers and policymakers use today into focus By developing a coherent set of tractable models the book enables students to explore and make sense of the pressing questions facing global economies Carlin and Soskice connect students with contemporary research and policy in macroeconomics The authors 3 equation model extended to include the financial system and with an integrated treatment of inequality equips students with a method they can apply to the enduring challenges stirred by the financial crisis and the Great Recession Digital formats and resources This title is available for students and institutions to purchase in a variety of formats and is supported by online resources The e Book offers a mobile experience and convenient access along with self assessment activities multimedia content and links that offer extra learning support For more information visit www oxfordtextbooks co uk ebooks This title is supported by a range of online resource for students including multiple choice questions with instant feedback interactive Animated Analytical Diagrams access to The Macroeconomic Simulator web appendices which develop chapters 1 4 7 and 18 In addition lecturers can access PowerPoint slides to accompany each chapter and answers to the problems and questions set in the book

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 *Progress in Artificial Economics* Marco Li Calzi,Lucia Milone,Paolo Pellizzari,2010-08-22 Artificial economics aims to provide a generative approach to understanding problems in economics and social sciences It is based on the consistent use of agent based models and computational techniques It encompasses a rich variety of techniques that generalize numerical analysis mathematical programming and micro simulations The peer reviewed contributions in this volume address applications of artificial economics to markets and trading auctions networks management industry sectors macroeconomics and demographics and culture **Introduction to the Economics and Mathematics of Financial Markets** Jaksa Cvitanic,Fernando Zapatero,2004-02-27 An innovative textbook for use in advanced undergraduate and graduate courses accessible to students in financial mathematics financial engineering and economics Introduction to the Economics and Mathematics of Financial Markets fills the longstanding need for an accessible yet serious textbook treatment of financial economics The book provides a rigorous overview of the subject while its flexible presentation makes it suitable for use with different levels of undergraduate and graduate students Each chapter presents mathematical models of financial problems at three different degrees of sophistication single period multi period and continuous time The single period and multi period models require only basic calculus and an introductory probability statistics course while an advanced undergraduate course in probability is helpful in understanding the continuous time models In this way the material is given complete coverage at different levels the less advanced student can stop before the more sophisticated mathematics and still be able to grasp the general principles of financial economics The book is divided into three parts The first part provides an introduction to basic securities and financial market organization the concept of interest rates the main mathematical models and quantitative ways to measure risks and rewards The second part treats option pricing and hedging here and throughout the book the authors emphasize the Martingale or probabilistic approach Finally the third part examines equilibrium models a subject often neglected by other texts in financial mathematics but included here because of the qualitative insight it offers into the behavior of market participants and pricing Economics, Social Science and Pluralism Victor A. Beker,2022-06-08 In the work of most classical economists including Smith and Keynes theory was often embedded in application But from the second half of the last century on mainstream economics styled itself as pure economics where the theory is presented in a very abstract form detached from any application This book

maintains that economics is a social science whose mission is to explain and when possible predict phenomena of the real world economy The book argues that the first step to restoring economics as a social science is to define what issues economics should address Only after this research agenda is established should the appropriate methodology be chosen not the other way around In this respect examples from other social sciences as well as from natural sciences are considered more appropriate models for economics rather than physics Moreover the need for a closer interaction with psychology sociology and other social sciences is required to restore the discipline to that field instead of acting as a branch of applied mathematics The book also argues for a more pluralist approach to economic education to enable prospective economists to understand real world economic phenomena and potential policy solution For this reason a good economics education should necessarily include the study of economic history and of the institutional environment This book is essential reading for anyone who wants to see economics return to its origins as a social science   *Dynamic General Equilibrium Modelling* Burkhard Heer,Alfred Maussner,2005-01-11 Modern business cycle theory and growth theory uses stochastic dynamic general equilibrium models Many mathematical tools are needed to solve these models The book presents various methods for computing the dynamics of general equilibrium models In part I the representative agent stochastic growth model is solved with the help of value function iteration linear and linear quadratic approximation methods parameterised expectations and projection methods In order to apply these methods fundamentals from numerical analysis are reviewed in detail Part II discusses methods for solving heterogeneous agent economies In such economies the distribution of the individual state variables is endogenous This part of the book also serves as an introduction to the modern theory of distribution economics Applications include the dynamics of the income distribution over the business cycle or the overlapping generations model Through an accompanying home page to this book computer codes to all applications can be downloaded   Introduction to Computational Economics Using Fortran Hans Fehr,Fabian Kindermann,2018 Introduction to Computational Economics Using Fortran is the essential guide to conducting economic research on a computer Aimed at students of all levels of education as well as advanced economic researchers it facilitates the first steps into writing programs using Fortran Introduction to Computational Economics Using Fortran assumes no prior experience as it introduces the reader to this programming language It shows the reader how to apply the most important numerical methods conducted by computational economists using the toolbox that accompanies this text It offers various examples from economics and finance organized in self contained chapters that speak to a diverse range of levels and academic backgrounds Each topic is supported by an explanation of the theoretical background a demonstration of how to implement the problem on the computer and a discussion of simulation results Readers can work through various exercises that promote practical experience and deepen their economic and technical insights This textbook is accompanied by a website from which readers can download all program codes as well as a numerical toolbox and receive technical information on how to install Fortran on

their computer   <u>Nonlinear Dynamics and Heterogeneous Interacting Agents</u> Thomas Lux,Stefan Reitz,Eleni Samanidou,2005-02-11 Economic application of nonlinear dynamics microscopic agent based modelling and the use of artificial intelligence techniques as learning devices of boundedly rational actors are among the most exciting interdisciplinary ventures of economic theory over the past decade This volume provides us with a most fascinating series of examples on complexity in action exemplifying the scope and explanatory power of these innovative approaches   **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   <u>Dynamic Social Networks in Agent-based Modelling</u> Holzhauer, Sascha,2017 Agent based modelling enables the explicit representation of entities and their interaction with each other and the environment and so it became an important method to study complex systems Social networks form an important part of agent based social simulation as they define the topology of agent interaction This dissertation initially identifies important properties of social networks and their dynamics and reviews their representation in agent based models of relevant domains A classification of levels of detail for the network modelling components initialisation dynamics of networks and dynamics on networks is proposed and guides the identification of deficits A formal iterative evaluation framework is developed to quantitatively assess network modelling approaches under a set of weighted criteria representativity adjustability validity and efficiency The framework is applied to an abstract model of opinion dynamics and to an empirically grounded model of social influence A lifestyle specific network survey is designed conducted and analysed and helps to ground the evaluation of the network modelling s representativity on empirical data The study finds significant differences of degree and distance distributions as well as in the composition of ego networks between lifestyles New network modelling approaches are developed to account for requirements in agent based models such as agent type specific link preferences degree and distance distributions community structures and interaction dynamics The comparison of simple to elaborated network modelling for the application models shows a significant impact on simulation results highlighting the need for informed decisions about suitable approaches   **Dynamic General Equilibrium Modeling** Burkhard Heer,Alfred Maussner,2011-10-20 Modern business cycle theory and growth theory uses

stochastic dynamic general equilibrium models In order to solve these models economists need to use many mathematical tools This book presents various methods in order to compute the dynamics of general equilibrium models In part I the representative agent stochastic growth model is solved with the help of value function iteration linear and linear quadratic approximation methods parameterised expectations and projection methods In order to apply these methods fundamentals from numerical analysis are reviewed in detail In particular the book discusses issues that are often neglected in existing work on computational methods e g how to find a good initial value In part II the authors discuss methods in order to solve heterogeneous agent economies In such economies the distribution of the individual state variables is endogenous This part of the book also serves as an introduction to the modern theory of distribution economics Applications include the dynamics of the income distribution over the business cycle or the overlapping generations model In an accompanying home page to this book computer codes to all applications can be downloaded *Agent-based Modeling and Network Dynamics* Akira Namatame,Shu-Heng Chen,2016 The book integrates agent based modeling and network science It is divided into three parts namely foundations primary dynamics on and of social networks and applications The authors begin with the network origin of agent based models known as cellular automata and introduce a number of classic models such as Schelling s segregation model and Axelrod s spatial game The text shows that the modern network science mainly driven by game theorists andsociophysicists has inspired agent based social scientists to develop alternative formation algorithms known as agent based social networks **Ontology, Epistemology, and Teleology for Modeling and Simulation** Andreas Tolk,2012-08-10 In this book internationally recognized experts in philosophy of science computer science and modeling and simulation are contributing to the discussion on how ontology epistemology and teleology will contribute to enable the next generation of intelligent modeling and simulation applications It is well understood that a simulation can provide the technical means to display the behavior of a system over time including following observed trends to predict future possible states but how reliable and trustworthy are such predictions The questions about what we can know ontology how we gain new knowledge epistemology and what we do with this knowledge teleology are therefore illuminated from these very different perspectives as each experts uses a different facet to look at these challenges The result of bringing these perspectives into one book is a challenging compendium that gives room for a spectrum of challenges from general philosophy questions such as can we use modeling and simulation and other computational means at all to discover new knowledge down to computational methods to improve semantic interoperability between systems or methods addressing how to apply the recent insights of service oriented approaches to support distributed artificial intelligence As such this book has been compiled as an entry point to new domains for students scholars and practitioners and to raise the curiosity in them to learn more to fully address the topics of ontology epistemology and teleology from philosophical computational and conceptual viewpoints

Reviewing **Models With Heterogeneous Agents Introduction**: Unlocking the Spellbinding Force of Linguistics

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