World Scientific Series in Economic Theory - Vol. 6

# UNCERTAINTY WITHIN ECONOMIC MODELS

Lars Peter Hansen Thomas J Sargent

Foreword by Eric S. Maskin

Series Editor-in-Chief



# <u>Uncertainty Within Economic Models World Scientific</u> <u>Series In Economic Theory</u>

**Peter Pauly** 

#### **Uncertainty Within Economic Models World Scientific Series In Economic Theory:**

**Uncertainty Within Economic Models** Lars Peter Hansen, Thomas J. Sargent, 2014 Studying this work in real time taught me a lot but seeing it laid out in conceptual rather than chronological order provides even clearer insights into the evolution of this provocative line of research Hansen and Sargent are two of the best economists of our time they are also among the most dedicated teachers in our profession They have once again moved the research frontier and with this book provide a roadmap for the rest of us to follow This is a must have for anyone interested in modeling uncertainty ambiguity and robustness Stanley E ZinWilliam R Berkley Professor of Economics and BusinessLeonard N Stern School of BusinessNew York UniversityWritten by Lars Peter Hansen Nobel Laureate in Economics 2013 and Thomas Sargent Nobel Laureate in Economics 2011 Uncertainty within Economic Models includes articles adapting and applying robust control theory to problems in economics and finance This book extends rational expectations models by including agents who doubt their models and adopt precautionary decisions designed to protect themselves from adverse consequences of model misspecification This behavior has consequences for what are ordinarily interpreted as market prices of risk but big parts of which should actually be interpreted as market prices of model uncertainty. The chapters discuss ways of calibrating agents fears of model misspecification in quantitative contexts **Uncertainty Within Economic Models** Lars Peter Hansen, Thomas J Sargent, 2014-09-09 Written by Lars Peter Hansen Nobel Laureate in Economics 2013 and Thomas Sargent Nobel Laureate in Economics 2011 Uncertainty within Economic Models includes articles adapting and applying robust control theory to problems in economics and finance This book extends rational expectations models by including agents who doubt their models and adopt precautionary decisions designed to protect themselves from adverse consequences of model misspecification This behavior has consequences for what are ordinarily interpreted as market prices of risk but big parts of which should actually be interpreted as market prices of model uncertainty. The chapters discuss ways of calibrating agents fears of model misspecification in quantitative contexts **The Language of Game Theory** Adam Brandenburger, 2014 This volume contains eight papers written by Adam Brandenburger and his co authors over a period of 25 years These papers are part of a program to reconstruct game theory in order to make how players reason about a game a central feature of the theory The program OCo now called epistemic game theory OCo extends the classical definition of a game model to include not only the game matrix or game tree but also a description of how the players reason about one another including their reasoning about other players reasoning With this richer mathematical framework it becomes possible to determine the implications of how players reason for how a game is played Epistemic game theory includes traditional equilibrium based theory as a special case but allows for a wide range of non equilibrium behavior Sample Chapter's Foreword 39 KB Introduction 132 KB Chapter 1 An Impossibility Theorem on Beliefs in Games 299 KB Contents An Impossibility Theorem on Beliefs in Games Adam Brandenburger and H Jerome Keisler Hierarchies of Beliefs and Common Knowledge Adam

Brandenburger and Eddie Dekel Rationalizability and Correlated Equilibria Adam Brandenburger and Eddie Dekel Intrinsic Correlation in Games Adam Brandenburger and Amanda Friedenberg Epistemic Conditions for Nash Equilibrium Robert Aumann and Adam Brandenburger Lexicographic Probabilities and Choice Under Uncertainty Lawrence Blume Adam Brandenburger and Eddie Dekel Admissibility in Games Adam Brandenburger Amanda Friedenberg and H Jerome Keisler Self Admissible Sets Adam Brandenburger and Amanda Friedenberg Readership Graduate students and researchers in the fields of game theory theoretical computer science mathematical logic and social neuroscience Theory, The: Putting Epistemics Into The Mathematics Of Games Adam Brandenburger, 2014-03-12 This volume contains eight papers written by Adam Brandenburger and his co authors over a period of 25 years These papers are part of a program to reconstruct game theory in order to make how players reason about a game a central feature of the theory The program now called epistemic game theory extends the classical definition of a game model to include not only the game matrix or game tree but also a description of how the players reason about one another including their reasoning about other players reasoning With this richer mathematical framework it becomes possible to determine the implications of how players reason for how a game is played Epistemic game theory includes traditional equilibrium based theory as a special case but allows for a wide range of non equilibrium behavior Journal of Economic Literature ,2014 Encyclopedia Of Business Storytelling, Set 2: Methodologies And Big Data Analysis Of Business Storytelling (In 5 **Volumes)**, 2023-10-13 This set of multi reference works is meant to be read together as the five volumes interlace one another like the laces of a shoe in the famous painting by Vincent van Gogh The guestion of who will wear the shoes is long debated in art history and philosophy If we take these five volumes from different points of view on the theory and practice of business storytelling then we have a crisscrossing a new and impressive dialogue for the reader This set is presented as a new way to lace up the laces of business storytelling Volume 1 aims to help and inspire leaders business owners and researchers in creating a commitment to ethical and sustainable changes and ideas and live in a world of high complexity without getting stressed but experiencing freedom instead The book combines tools case studies and theories about the ethical change management method of True Storytelling and other perspectives and views on ethics and storytelling It delves into important topics such as true storytelling sustainability and freedom storytelling and start ups in the health industry storytelling and diversity and culture storytelling and teams storytelling sustainability and the UN Goals storytelling and well being storytelling in higher education and storytelling and fundraising Book authors are experienced and successful researchers business owners leaders and consultants from Scandinavia the USA Africa and Europe Volume 2 is an endeavor into the creation of new concepts for engaging with sustainability It maintains that storytelling is important for our emplacement in nature and can be important for enacting another relationship between nature and the cultural artifice our social and material constructions of houses cities villages harbors streets and railways and our use of objects and artifacts to

construct our lives Business storytelling communication is that space for social symbolic work that brings the symbolic objects of the organization the human and the natural environment into a dialogical relationship Volume 3 posits that organizations are arranged as social symbols that are arranged in institutions based on the needs of organics for example health food shelter mating leisure and labor Organics as a social symbolic object specifically humans have emotions language and culture to organize their institutions and organizations In this book readers will find that many of the authors attempt to understand the body's exclusion or attempt to bring the body back into the organization Business storytelling communication takes aim at the social symbolic work of making space to negotiate the social arrangement of organizations with its organic components Volume 4 covers a variety of methodological topics from a storytelling perspective Why a storytelling perspective Consider that a common business research goal is to convince others that what the researcher has to say matters If the researcher is a basic researcher who wishes to promote a theory the goal is to make a convincing case for the value of that theory If the researcher is an applied researcher who wishes to promote a particular application intervention or policy change the goal is likewise to make a convincing case Either way the researcher has a story to tell and the onus is on the researcher to tell the best possible story storytelling failures likely will result in a failure to convince others of the value of one s theory or application Here is where methodological issues come into play Poor methodology whether in the form of less than optimal study designs or invalid statistical analyses harms story quality In contrast high quality methods and statistics enhance story quality Moreover the larger one s methodological and statistical toolbox the greater the opportunities for researchers to tell effective stories The chapters in this book come from a wide variety of perspectives and should enhance researchers storytelling in the following ways By opening many different methodological and statistical perspectives researchers should be more able to think of research stories that otherwise would remain unavailable or inaccessible Secondly the present chapters should aid researchers in better executing their research stories Therefore researchers and graduate students will find this book an invaluable resource Volume 5 opens a window into the world of quantum storytelling as an organizational research methodology providing numerous exemplars of work in this storytelling science that has disrupted qualitative inquiry only with the intention of providing expanded improved and generative ways of understanding and knowing the narratives that emerge from qualitative interviews and observations during organizational research studies

World Scientific Handbook Of Global Health Economics And Public Policy (A 3-volume Set) Richard M Scheffler, 2016-01-28 Understanding global health economics and policy has never been so important This remarkable three volume collection of chapters is sure to become the standard on health economics and health policy around the world David CutlerOtto Eckstein Professor of Applied EconomicsHarvard UniversityThis Handbook covers major topics in global health economics and public policy and provides a timely systematic review of the field Edited by Richard M Scheffler Distinguished Professor of Health Economics and Public Policy and Director of the Global Center for Health Economics and Policy Research

at the University of California Berkeley the Handbook features academics and practitioners from more than a dozen countries Contributors are from the London School of Economics and Political Science Pompeu Fabra University in Barcelona University of York University of Oslo London School of Hygiene and Tropical Medicine University of California Berkeley Stanford University Johns Hopkins University University of Toronto University of Oxford Harvard Medical School OECD the World Health Organization and the World Bank many of whom have also acted as economic and policy advisors to government and non governmental organizations across the world Experts in these areas who provide critical analyses and relevant data for further exploration and research include Thomas E Getzen Executive Director of the International Health Economics Association iHEA Douglas E Hough Associate Scientist and Associate Director of the Master in Healthcare Management programme at the Bloomberg School of Public Health of John Hopkins University Guillem L pez Casasnovas former President of iHEA and member of the Advisory Council of the Spanish Health and Social Welfare Ministry and of the Advisory Council of the Catalan Health Ministry since 1984 Alistair McGuire Professor of Health Economics at the London School of Economics and Political and advisor to a number of governments and governmental bodies across Europe Tor Iversen Research Director at the Health Economics Research Programme at the University of Oslo and former member of the iHEA Arrow Award Committee 2007 2011 William H Dow Professor and Associate Dean for Research at University of California Berkeley and former Senior Economist for the Council of Economic Advisors White House Audrey Laporte the Director of the Canadian Centre for Health Economics Alexander S Preker President and CEO of Health Investment Ayda Yurekli who initiated and developed the World Health Organization TaXSiM simulation model that has been used by many Ministries of Finance around the world for the development of tax policies Marko Vujicic Managing Vice President of the Health Policy Resources Center at the American Dental Association Mark Sculpher Director of the Programme on Economic Evaluation and Health Technology Assessment at the University of York and former President of the International Society of Pharmacoeconomics and Outcomes Research ISPOR 2011 2012 and Peter Berman who has had almost 40 years of experience in global health and was formerly a Lead Health Economist at the World Bank The Handbook spans across three volumes The chapters deal with key global issues in health economics are evidence based and offer innovative policy alternatives and solutions The Handbook's approach toward global health economics and public policy will make it a useful resource for health economists policymakers private sector companies NGOs government decision makers and those who manage healthcare systems Global Economic Modeling: A Volume In Honor Of Lawrence R Klein Peter Pauly, 2018-04-25 Global econometric models have a long history From the early 1970s to the present as modeling techniques have advanced different modeling paradigms have emerged and been used to support national and international policy making One purpose of this volume based on a conference in recognition of the seminal impact of Nobel Prize winner in Economic Sciences Lawrence R Klein whose pioneering work has spawned the field of international econometric modeling is

to survey these developments from today s perspective A second objective of the volume is to shed light on the wide range of attempts to broaden the scope of modeling on an international scale Beyond new developments in traditional areas of the trade and financial flows the volume reviews new approaches to the modeling of linkages between macroeconomic activity and individual economic units new research on the analysis of trends in income distribution and economic wellbeing on a global scale and innovative ideas about modeling the interactions between economic development and the environment With the expansion of elaborated economic linkages this volume makes an important contribution to the evolving literature of global econometric models **Arbitrage Theory in Continuous Time** Tomas Björk, 2004-03 The second edition of this popular introduction to the classical underpinnings of the mathematics behind finance continues to combine sounds mathematical principles with economic applications Concentrating on the probabilistics theory of continuous arbitrage pricing of financial derivatives including stochastic optimal control theory and Merton's fund separation theory the book is designed for graduate students and combines necessary mathematical background with a solid economic focus It includes a solved example for every new technique presented contains numerous exercises and suggests further reading in each chapter In this substantially extended new edition Bjork has added separate and complete chapters on measure theory probability theory Girsanov transformations LIBOR and swap market models and martingale representations providing two full treatments of arbitrage pricing the classical delta hedging and the modern martingales More advanced areas of study are clearly marked to help students and teachers use the book as it suits their needs The New Palgrave Dictionary of Economics ,2016-05-18 The award winning The New Palgrave Dictionary of Economics 2nd edition is now available as a dynamic online resource Consisting of over 1 900 articles written by leading figures in the field including Nobel prize winners this is the definitive scholarly reference work for a new generation of economists Regularly updated This product is a subscription based product Companion to the Political Economy of Rent Seeking R. D. Congleton, A. L. Hillman, 2015-02-27 The quest for benefit from existing wealth or by seeking privileged benefit through influence over policy is known as rent seeking Much rent seeking activity involves government and political decisions and is therefore in the domain of political econo Classical Economics, Keynes and Money John Eatwell, Pasquale Commendatore, Neri Salvadori, 2022-07-29 Classical Economics Keynes and Money casts new light on an approach to economic theory and policy that combines the modern classical theory of prices and income distribution with a Keynesian analysis of money and finance Structured in four parts the work considers issues within classical economics monetary economics Keynesian and post Keynesian Economics rationality and economic methodology These themes are all central to the work of Carlo Panico and the chapters both reflect on and build on his key contributions to the field This collection is of interest to advanced students and researchers in the history of economic thought monetary theory financial economics and heterodox economics Advanced Asset Pricing Theory Chenghu Ma, 2011-01-03 This book provides a broad introduction of modern asset pricing theory with

equal treatments for both discrete time and continuous time modeling Both the no arbitrage and the general equilibrium approaches of asset pricing theory are treated coherently within the general equilibrium framework The analyses and coverage are up to date comprehensive and in depth Topics include microeconomic foundation of asset pricing theory the no arbitrage principle and fundamental theorem risk measurement and risk management sequential portfolio choice equity premium decomposition option pricing bond pricing and term structure of interest rates. The merits and limitations are expounded with respect to allocation and information market efficiency along with the classical expectations hypothesis concerning the information content of yield curve and bond prices Efforts are also made towards the resolution of several well documented puzzles in empirical finance which include the equity premium puzzle the risk free rate puzzle and the money ness bias phenomenon of Black Scholes option pricing model The theory is self contained and unified in presentation The inclusion of proofs and derivations to enhance the transparency of the underlying arguments and conditions for the validity of the economic theory makes an ideal advanced textbook or reference book for graduate students specializing in financial economics and quantitative finance The explanations are detailed enough to capture the interest of those curious readers and complete enough to provide necessary background material needed to explore further the subject and research India's Emerging Financial Market Tomoe Moore, 2007-09-27 In the early 1990s financial liberalization started literature in India and it was thought that such reforms would increase economic growth This book is the first study to comprehensively apply the flow of funds model for India Beyond Traditional Probabilistic Methods in Economics Vladik Kreinovich, Nguyen Ngoc Thach, Nguyen Duc Trung, Dang Van Thanh, 2018-11-24 This book presents recent research on probabilistic methods in economics from machine learning to statistical analysis Economics is a very important and at the same a very difficult discipline It is not easy to predict how an economy will evolve or to identify the measures needed to make an economy prosper One of the main reasons for this is the high level of uncertainty different difficult to predict events can influence the future economic behavior To make good predictions and reasonable recommendations this uncertainty has to be taken into account In the past most related research results were based on using traditional techniques from probability and statistics such as p value based hypothesis testing These techniques led to numerous successful applications but in the last decades several examples have emerged showing that these techniques often lead to unreliable and inaccurate predictions It is therefore necessary to come up with new techniques for processing the corresponding uncertainty that go beyond the traditional probabilistic techniques This book focuses on such techniques their economic applications and the remaining challenges presenting both related theoretical developments and their practical applications Optimal Control of the Growth of Wealth of Nations E.N. Chukwu, 2003-01-23 Students and researchers in applied mathematics and applied economics can use this introductory level graduate text It looks at the current problems of the development of the global economy by studying the dynamics of key economic variables such as gross national product interest rates employment value

of capital stock prices inflation and balance of payments Validation of the model is attempted using the economic time series of several countries The constructed models explain the macroeconomic data of nations as dynamic games of pursuit which are equivalent to control problems and are used to study mathematical optimal control of the growth of the wealth of nations This invaluable reference for graduates and researchers compares the extent of government intervention in the economy Keynesian, Sraffian, Computable and Dynamic Economics with private firms to ensure the controllability of the economy Kumaraswamy Velupillai, 2021-03-08 This book explores an alternative approach to the conventional market based view of economic theory and economic policy at theoretical numerical and applicable levels. The chapters provide a theoretical empirical and algorithmic approach to marcodynamics Sraffian economics and current policy issues Post Keynesian macroeconomics business cycle theory the trade cycle microfoundations and the Philips Machine are also covered This book aims to challenge orthodox ideas and provide a lens through which to honour the work of Stefano Zambelli It will be of relevant to students and academics interested in economics **Arbitrage Theory in Continuous Time Tomas** Bjork,2020-01-16 The fourth edition of this widely used textbook on pricing and hedging of financial derivatives now also includes dynamic equilibrium theory and continues to combine sound mathematical principles with economic applications Concentrating on the probabilistic theory of continuous time arbitrage pricing of financial derivatives including stochastic optimal control theory and optimal stopping theory Arbitrage Theory in Continuous Time is designed for graduate students in economics and mathematics and combines the necessary mathematical background with a solid economic focus It includes a solved example for every new technique presented contains numerous exercises and suggests further reading in each chapter All concepts and ideas are discussed not only from a mathematics point of view but with lots of intuitive economic arguments In the substantially extended fourth edition Tomas Bjork has added completely new chapters on incomplete markets treating such topics as the Esscher transform the minimal martingale measure f divergences optimal investment theory for incomplete markets and good deal bounds This edition includes an entirely new section presenting dynamic equilibrium theory covering unit net supply endowments models and the Cox Ingersoll Ross equilibrium factor model Providing two full treatments of arbitrage theory the classical delta hedging approach and the modern martingale approach this book is written so that these approaches can be studied independently of each other thus providing the less mathematically oriented reader with a self contained introduction to arbitrage theory and equilibrium theory while at the same time allowing the more advanced student to see the full theory in action This textbook is a natural choice for graduate students and advanced undergraduates studying finance and an invaluable introduction to mathematical finance for mathematicians and professionals in the market Oligopoly, the Environment and Natural Resources Luca Lambertini, 2013-08-21 Industrial production and consumption patterns rely heavily on the intensive use of both renewable and non renewable resources and the consequences for the environment can be serious Following a long period of time

where the profit incentives of firms have prevailed over preservation of the environment and the world's natural resources a new consensus has emerged concerning the need to regulate firm behaviour aimed at ensuring the sustainability of the economic system in the long run This book offers an exhaustive overview of current economic debate about these topics taking modern oligopoly theory as a benchmark The first part of the book covers static models dealing with incentives for green research and development Pigovian taxation cartels environmental quality and international trade as well as the role of corporate social responsibility public firms and consumer environmental awareness as endogenous regulatory instruments. Then the author moves on to examine the role of time while drawing from optimal control and differential game theory. This opens the way to the discussion of fair discount rates to ensure the welfare of future generations as well as the long run sustainability of production and consumption patterns.

Handbook on the Economics of Climate Change Graciela. Chichilnisky, Armon Rezai, 2020-06-26. This timely Handbook recognises the emergence of climate change as the defining topic of our time With public climate discourse growing more urgent every year this Handbook brings together international experts from different economic disciplines to answer critical climate policy questions.

Uncover the mysteries within Explore with is enigmatic creation, Discover the Intrigue in **Uncertainty Within Economic Models World Scientific Series In Economic Theory**. This downloadable ebook, shrouded in suspense, is available in a PDF format ( Download in PDF: \*). Dive into a world of uncertainty and anticipation. Download now to unravel the secrets hidden within the pages.

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