

Nonlinear Economic Dynamics

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*ECONOMIC THEORY, ECONOMETRICS,
AND MATHEMATICAL ECONOMICS*



Nonlinear Economic Dynamics

Tönu Puu



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Nonlinear Economic Dynamics Tönu Puu, 2012-12-06 This book was first published in 1989 as volume 336 in the Springer series Lecture Notes in Economics and Mathematical Systems and it reappeared in a 2nd edition as a Springer monograph in 1991 After considerable revisions it appeared in a 3rd edition in 1993 The origin still visible in the 3rd edition was the joint work of the author with Professor Martin J Beckmann documented in two co authored monographs Spatial Economics North Holland 1985 and Spatial Structures Springer Verlag 1990 Essential dynamics had however been almost completely lacking in these works and the urge to focus the dynamic issues was great To fill this particular gap was the aim of the previous editions and so the spatial aspect provided core and focus In the present edition a substantial quantity of spatial issues have been removed All those that were dynamic only in the sense that structures were characterized which were structurally stable or robust in a changing world The removed material has meanwhile been published as a separate monograph under the title Mathematical Location and Land Use Theory Springer Verlag 1996

Nonlinear Economic Dynamics and Financial Modelling Roberto Dieci, Xue-Zhong He, Cars Hommes, 2014-07-26 This book reflects the state of the art on nonlinear economic dynamics financial market modelling and quantitative finance It contains eighteen papers with topics ranging from disequilibrium macroeconomics monetary dynamics monopoly financial market and limit order market models with boundedly rational heterogeneous agents to estimation time series modelling and empirical analysis and from risk management of interest rate products futures price volatility and American option pricing with stochastic volatility to evaluation of risk and derivatives of electricity market The book illustrates some of the most recent research tools in these areas and will be of interest to economists working in economic dynamics and financial market modelling to mathematicians who are interested in applying complexity theory to economics and finance and to market practitioners and researchers in quantitative finance interested in limit order futures and electricity market modelling derivative pricing and risk management

Nonlinear Economic Dynamics Tönu Puu, Anastasiia Panchuk, 2011 This book focuses on recent advances made in the field of non linear dynamic modelling in economics Mathematically linearity is a very special kind of relation between variables chosen to the purpose of simplification Even in physics linear modelling of dynamical systems was a first choice for quite some time due to convenience in analysis as exemplified by the acceleration law the harmonic oscillator the wave equation and the like The methods of analysis were simply developed to the ease of dealing with such systems These methods are found under the heading of infinitesimal calculus at early stages dynamical processes were formulated as differential equations in continuous time

Nonlinear Economic Dynamics 3Island Press, 1997-06-19 Nonlinear Economic Dynamics Jean-Michel Grandmont, 1986 A timely work which represents a major reappraisal of business cycle theory It revives with the help of modern analytical techniques an old theme of Keynesian macroeconomics namely that market psychology i e volatile expectations may be a significant cause of economic fluctuations It is of interest not only to

economists but also to mathematicians and physicists *Nonlinear Dynamics and Economics* William A. Barnett, Alan P. Kirman, Mark Salmon, 1996-10-28 This 1997 book presents developments in nonlinear economic dynamics along with related research from other fields including mathematics statistics biology and physics **Special Issue on Nonlinear Economic Dynamics**, 2013 **Nonlinearities in Economics** Giuseppe Orlando, Alexander N. Pisarchik, Ruedi Stoop, 2021-08-31 This interdisciplinary book argues that the economy has an underlying non linear structure and that business cycles are endogenous which allows a greater explanatory power with respect to the traditional assumption that dynamics are stochastic and shocks are exogenous The first part of this work is formal methodological and provides the mathematical background needed for the remainder while the second part presents the view that signal processing involves construction and deconstruction of information and that the efficacy of this process can be measured The third part focuses on economics and provides the related background and literature on economic dynamics and the fourth part is devoted to new perspectives in understanding nonlinearities in economic dynamics growth and cycles By pursuing this approach the book seeks to 1 determine whether and if so where common features exist 2 discover some hidden features of economic dynamics and 3 highlight specific indicators of structural changes in time series Accordingly it is a must read for everyone interested in a better understanding of economic dynamics business cycles econometrics and complex systems as well as non linear dynamics and chaos theory Nonlinear Dynamical Economics and Chaotic Motion Hans-Walter Lorenz, 2013-06-29 The plan to publish the present book arose while I was preparing a joint work with Gunter Gabisch Gabisch G Lorenz H W Business Cycle Theory Berlin Heidelberg New York Springer It turned out that a lot of interesting material could only be sketched in a business cycle text either because the relevance for business cycle theory was not evident or because the material required an interest in dynamical economics which laid beyond the scope of a survey text for advanced undergraduates While much of the material enclosed in this book can be found in condensed and sometimes more or less identical form in that business cycle text the present monograph attempts to present nonlinear dynamical economics in a broader context with economic examples from other fields than business cycle theory It is a pleasure for me to acknowledge the critical comments extremely detailed remarks or suggestions by many friends and colleagues The responses to earlier versions of the manuscript by W A Barnett M Boldrin W A Brock C Chiarella C Dale G Feichtinger P Flaschel D K Foley R M Goodwin D Kelsey M Lines A Medio L Montrucchio P Read C Sayers A Schmutzler H Schnabl G Silverberg H Sinn J Sterman and R Tscherning not only encouraged me to publish the book in its present form but helped to remove numerous errors not only typographic ones and conceptual misunderstandings and flaws Particular thanks go to G **Recent Topics on Nonlinear Economic Dynamics** Gian Italo Bischi, Michael Kopel, Akio Matsumoto, 2007 The Elements of a Nonlinear Theory of Economic Dynamics Carl Chiarella, 2012-12-06 Elements of a Nonlinear Theory of Economic Dynamics provides both a framework and a survey of its needs First principle results and techniques of the theory relevant to applications in

dynamic economics are discussed then their application in view of older endogenous cycle theories are considered in a unified mathematical framework Models incorporating the government budget constraint and the Goodwin model are analysed using the method of averaging and the centre manifold theory The dynamic instability problem is solved by placing models in a nonlinear framework

Nonlinear Economic Dynamics Tõnu Puu, 2013-03-14 The present study is a preliminary draft on nonlinear economic dynamics with which the author has been concerned the last years It grew out from the joint work by Professor Martin Beckmann and the present author on nonlinear statics in spatial economics Beckmann and Puu Spatial Economics North Holland 1985 The monograph mentioned contains sections on price waves and business cycles but in a linear format The rest is static theory The author has finally come to the conviction that linear dynamic modelling has very little to yield This is due to the poor set of alternatives decay or explosion of motion pertinent to linear models Therefore the present work centres on non linearity Another distinction is that only purely causal models are dealt with as those formatted as inter temporal equilibria hardly belong to the more restricted field of dynamics The spatial origin is visible in the choice of models Chapter 2 summarizes the work by the author on the structural stability of continuous spatial market equilibrium models Chapter 3 deals with a reformulation of the ingenious population growth and diffusion model invented by the young Hotelling in 1921 Chapter 4 is a detailed digression on business cycle models in a continuous spatial format with interregional trade

Developments in Nonlinear Economic Dynamics Carl Chiarella, 1992 Nonlinear Dynamics in Economics, Finance and the Social Sciences Gian Italo Bischi, Carl Chiarella, Laura Gardini, 2009-12-15 Over the last two decades there has been a great deal of research into nonlinear dynamic models in economics finance and the social sciences This book contains twenty papers that range over very recent applications in these areas Topics covered include structural change and economic growth disequilibrium dynamics and economic policy as well as models with boundedly rational agents The book illustrates some of the most recent research tools in this area and will be of interest to economists working in economic dynamics and to mathematicians interested in seeing ideas from nonlinear dynamics and complexity theory applied to the economic sciences

Developments in Nonlinear Economic Dynamics Carl Chiarella, 2006 Essays in Nonlinear Economic Dynamics Richard Murphey Goodwin, 1989 Since the publication of Keynes General Theory there has been a steady increase in interest in dynamics With it has only recently come the realization that linear dynamics are very restrictive This book is a collection of essays on nonlinear economic dynamics mostly written very recently They attempt to combine in one integral whole the analysis of cycles and growth neither of which ever exists in the absence of the other The essays cover cyclical and unsteady growth multisectoral models discrete time and irregularity Schumpeter's vision and personal statements

Nonlinear Dynamics in Economics, Finance and the Social Sciences Gian Italo Bischi, Carl Chiarella, Laura Gardini, 2010-04-17

Papers Presented at the Fifth Viennese Workshop on Advances in Nonlinear Economic Dynamics Viennese Workshop on Advances in Nonlinear Economic Dynamics. 5, 1995, Wien; Bratislava, 1997

Special Section: Recent Topics on Nonlinear Economic Dynamics Gian Italo Bischi, 2007 **Nonlinear Dynamics and Evolutionary Economics** Richard Hollis Day, Ping Chen, 1993

Advances in physics, computers and mathematics have made it possible to illustrate an astonishing array of potential behavior that can occur when nonlinear interactions are present. As Prigogine explains from a physicist's perspective, the fundamental role of instability and bounded rationality provides more precise understanding for evolution and changes. This volume considers these developments from various fields in the context of economic science. The work starts with a general non-mathematical discussion introducing the major themes: nonlinearity, dynamical systems and evolution in economic processes. The work continues with nonlinear analysis of macroeconomic growth and fluctuations. It describes analyses of economic adaptation, learning and self-organization. The volume also scrutinizes a specific market equilibrium using nonlinear analysis, controlled experiments and statistical inference when nonlinearity plays an essential role in data generation. The volume closes with an historical reflection by Richard Goodwin and a roundtable discussion on basic issues and new challenges in nonlinear economic dynamics.

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