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Nonlinear Dynamics and Heterogeneous Interacting Agents



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on state space models I thank Professor Thomas Braun for joining the committee for my oral examination

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change and the influence of inequality on innovations and growth Risk-Averse Capacity Control in Revenue Management Christiane Barz, 2007-08-02 This book revises the well known capacity control problem in revenue management from the perspective of a risk averse decision maker Modelling an expected utility maximizing decision maker the problem is formulated as a risk sensitive Markov decision process Special emphasis is put on the existence of structured optimal policies Numerical examples illustrate the results Manipulations in Prediction Markets Jan Schröder, 2009 Fraud and manipulation in prediction markets are systematic results of incentive incompatibility which if present have to be detected and balanced Manipulations in Prediction Markets gives a critical insight into manipulations that are most likely to occur in prediction markets In a general approach the book discusses the issue of incentives in markets and the breakdown of the incentive system On this basis a new way of detecting irregular trading behaviour is introduced Nonlinearity, Bounded **Rationality, and Heterogeneity** Tamotsu Onozaki, 2018-01-28 This book pursues a nonlinear approach in considering both chaotic dynamical models and agent based simulation models of economics as well as their dynamical behaviors Three key concepts arising in this context are nonlinearity bounded rationality and heterogeneity which also make up the title of the book Nonlinearity is the warp that runs throughout all models because systems that exhibit chaotic or other complex behavior in the absence of any exogenous disturbances are absolutely nonlinear Bounded rationality constitutes the woof because economic systems do not exhibit complex behavior if all agents are perfectly rational as is usually assumed in neoclassical economics Agents who are boundedly rational have to struggle to do their best with limited information and tend to adapt to their economic environment without knowing what is the best Furthermore the heterogeneity of firms or consumers dyes the fabric of complex dynamics woven from the warp and woof Preferences and Decisions Salvatore Greco, Ricardo Alberto Marques Pereira, Massimo Squillante, Ronald R. Yager, 2010-10-05 Decision making is an omnipresent most crucial activity of the human being and also of virtually all artificial broadly perceived intelligent systems that try to mimic human behavior reasoning and choice processes It is guite obvious that such a relevance of decision making had triggered vast research effort on its very essence and attempts to develop tools and techniques which would make it possible to somehow mimic human decision making related acts even to automate decision making processes that had been so far reserved for the human beings The roots of those attempts at a scientific analysis can be traced to the ancient times but clearly they have gained momentum in the recent 50 or 100 years following a general boom in science Depending on the field of science decision making can be viewed in different ways The most general view can be that decision making boils down to some cognitive mental process es that lead to the selection of an option or a course of action among several alternatives Then looking in a deeper way from a psychological perspective this process proceeds in the context of a set of needs preferences rational choice of an individual a group of individuals or even an organization From a cognitive perspective the decision making process proceeds in the context of various interactions with the environment Behavioral Rationality and

Heterogeneous Expectations in Complex Economic Systems Cars Hommes, 2013-01-24 Recognising that the economy is a complex system with boundedly rational interacting agents applies complexity modelling to economics and finance

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 Vector Optimization Guang-ya Chen, Xuexiang Huang, Xiaogi Yang, 2005-07-13 This book is devoted to vector or multiple criteria approaches in optimization Topics covered include vector optimization vector variational inequalities vector variational principles vector minmax inequalities and vector equilibrium problems In particular problems with variable ordering relations and set valued mappings are treated. The nonlinear scalarization method is extensively used throughout the book to deal with various vector related problems. The results presented are original and should be interesting to researchers and graduates in applied mathematics and operations research Readers will benefit from new methods and ideas for handling multiple criteria decision problems **Agent-Based Modeling** Norman Ehrentreich, 2007-10-25 This book reconciles the existence of technical trading with the Efficient Market Hypothesis By analyzing a well known agent based model the Santa Fe Institute Artificial Stock Market SFI ASM it finds that when selective forces are weak financial evolution cannot guarantee that only the fittest trading rules will survive Its main contribution lies in the application of standard results from population genetics which have widely been neglected in the agent based community Interactive Macroeconomics Corrado Di Guilmi, Mauro Gallegati, Simone Landini, 2017-04-04 One of the major problems of macroeconomic theory is the way in which the people exchange goods in decentralized market economies There are major disagreements among macroeconomists regarding tools to influence required outcomes Since the mainstream efficient market theory fails to provide an internal coherent framework there is a need for an alternative theory The book provides an innovative approach for the analysis of agent based models populated by the heterogeneous and interacting agents in the field of financial fragility The text is divided in two parts the first presents analytical developments of stochastic aggregation and macro dynamics inference methods The second part introduces macroeconomic models of financial fragility for complex systems populated by heterogeneous and interacting agents The concepts of financial fragility and

macroeconomic dynamics are explained in detail in separate chapters. The statistical physics approach is applied to explain theories of macroeconomic modelling and inference Transdisciplinarity Nima Rezaei, 2022-11-13 This contributed volume book aims at discussing transdisciplinary approaches to address common problems By working transdisciplinarily researchers coming from different disciplines can work jointly using a shared conceptual framework bringing together disciplinary specific theories and concepts There are numerous barriers that can obstruct effective communication between different cultures communities religions and geographies This book shows that through bringing together different disciplines researchers not only can surpass these barriers but can effectively produce new venues of thought that can positively affect the development and evolution of research and education The book discusses new and emerging applications of knowledge produced by transdisciplinary efforts and covers the interplay of many disciplines including agriculture economics mathematics engineering industry information technology marketing nanoscience neuroscience space exploration human animal relationships among others Consequently it also covers the relationship between art and science as one of the most remarkable transdisciplinary approaches that paves the way for new methods in engineering design architecture and many other fields Multiple Criteria Decision Making in the New Millennium Murat Köksalan, Stanley Zionts, 2012-12-06 This volume contains a collection of papers presented at the 15th International Conference on Multiple Criteria Decision Making held in Ankara Turkey July 10 14 2000 This was one of the regular conferences of the International Society on Multiple Criteria Decision Making which are held at approximately two year intervals The Ankara conference had 195 participants from 38 countries A total of 185 papers were presented at the conference The title of our volume is MCDM in the New Millennium The papers presented at the conference reflect the theme We had several papers on information technology IT and many application papers Of the 81 application papers presented 14 appear in the volume We expect more IT applications of MCDM to appear in the future in particular in the areas of e commerce and the internet The conference surroundings and accommodations were excellent and conducive to both an outstanding academic exchange and enjoyment and a cultural broadening of participants We had a pleasant and enjoyable outing and visit to the Anatolian Civilizations Museum We also had an outstanding banquet at which awards were presented The MCDM Gold Medal was presented to Professor Thomas Saaty of the University of Pittsburgh The MCDM Presidential Service Award was presented to ProfessorPekka Korhonen of the Helsinki School of Economics for his years of presidential service to the society The society presented the MCDM Edgeworth Pareto Award to Professor Alexander V Lotov of the Russian Academy of Sciences

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