Solving Models with Heterogeneous Agents - KS algorithm

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Models With Heterogeneous Agents Introduction

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Models With Heterogeneous Agents Introduction:

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

Quantitative and Empirical Analysis of Nonlinear Dynamic Macromodels Carl Chiarella,Reiner Franke,Peter Flaschel,Willi Semmler,2006-05-30 This book represents an ongoing research agenda the aim of which is to contribute to the Keynesian paradigm in macroeconomics It examines the Dynamic General Equilibrium DGE model the assumption of intertemporal optimizing behavior of economic agents competitive markets and price mediated market clearing through flexible wages and prices **Information and Communication Technologies in Education, Research, and Industrial Applications** Nick Bassiliades,Vadim Ermolayev,Hans-Georg Fill,Vitaliy Yakovyna,Heinrich C. Mayr,Mykola Nikitchenko,Grygoriy Zholtkevych,Aleksander Spivakovsky,2018-03-05 This book contains extended versions of the best papers presented at the 13th International Conference on Information and Communication Technologies in Education Research and Industrial Applications ICTERI 2017 held in Kyiv Ukraine in May 2017 The 11 revised full papers included in this volume were carefully reviewed and selected from 151 initial submissions during several rounds of reviewing The papers are organized in the following topical sections modeling and theoretical frameworks ICT in teaching learning and education management and ICT evaluation and applications *Computational Science – ICCS 2021* Maciej Paszynski,Dieter Kranzlmüller,Valeria V. Krzhizhanovskaya,Jack J. Dongarra,Peter M.A. Sloot,2021-06-10 The six volume set LNCS 12742 12743 12744 12745 12746 and 12747 constitutes the proceedings of the 21st International Conference on Computational Science ICCS 2021 held in Krakow Poland in June 2021 The total of 260 full papers and 57 short papers presented in this book set were carefully reviewed and selected from 635 submissions 48 full and 14 short papers were accepted to the main

track from 156 submissions 212 full and 43 short papers were accepted to the workshops thematic tracks from 479 submissions The papers were organized in topical sections named Part I ICCS Main Track Part II Advances in High Performance Computational Earth Sciences Applications and Frameworks Applications of Computational Methods in Artificial Intelligence and Machine Learning Artificial Intelligence and High Performance Computing for Advanced Simulations Biomedical and Bioinformatics Challenges for Computer Science Part III Classifier Learning from Difficult Data Computational Analysis of Complex Social Systems Computational Collective Intelligence Computational Health Part IV Computational Methods for Emerging Problems in dis Information Analysis Computational Methods in Smart Agriculture Computational Optimization Modelling and Simulation Computational Science in IoT and Smart Systems Part V Computer Graphics Image Processing and Artificial Intelligence Data Driven Computational Sciences Machine Learning and Data Assimilation for Dynamical Systems MeshFree Methods and Radial Basis Functions in Computational Sciences Multiscale Modelling and Simulation Part VI Quantum Computing Workshop Simulations of Flow and Transport Modeling Algorithms and Computation Smart Systems Bringing Together Computer Vision Sensor Networks and Machine Learning Software Engineering for Computational Science Solving Problems with Uncertainty Teaching Computational Science Uncertainty Quantification for Computational Models The conference was held virtually **Three Essays on Asset Pricing Model with Heterogenous Agents** Tae-Jin Kang,1991 *Multicriteria and Multiagent Decision Making with Applications to Economics and Social Sciences* Aldo G. S. Ventre,Antonio Maturo,Šárka Hošková-Mayerová,Janusz Kacprzyk,2013-12-06 The book provides a comprehensive and timely report on the topic of decision making and decision analysis in economics and the social sciences The various contributions included in the book selected using a peer review process present important studies and research conducted in various countries around the globe The majority of these studies are concerned with the analysis modeling and formalization of the behavior of groups or committees that are in charge of making decisions of social and economic importance Decisions in these contexts have to meet precise coherence standards and achieve a significant degree of sharing consensus and acceptance even in uncertain and fuzzy environments This necessitates the confluence of several research fields such as foundations of social choice and decision making mathematics complexity psychology sociology and economics A large spectrum of problems that may be encountered during decision making and decision analysis in the areas of economics and the social sciences together with a broad range of tools and techniques that may be used to solve those problems are presented in detail in this book making it an ideal reference work for all those interested in analyzing and implementing mathematical tools for application to relevant issues involving the economy and society **Equilibrium: Some recent types of equilibrium models** Donald Anthony Walker,2000 *Tobin-Tax and its Relevance for Financial Markets. Modelling a Scenario including the Transaction Tax in Financial Markets* David Kunze,2018-02-02 Master s Thesis from the year 2017 in the subject Economics Finance grade 1 7 University of Bamberg course Regulierung und Kontrolle von

Finanzm rkten language English abstract After this brief introduction it becomes clear that the realization of a financial transaction tax would predominantly serve the goal of preventing future financial crises by reducing instability in financial markets high volatility In the following thesis the author will first set up a model displaying a financial market with two heterogeneous agents to explain to what extent their trading behaviours have an impact on the stability of the relevant market In a second step the model will be extended to two relevant markets the agents can choose to trade in and the effects of an application of a transaction tax will be depicted Due to the fact that the reaction of financial markets to a tax introduction depends on various factors the main goal of this work will be to test to what extent the market liquidity in combination with an imposed transaction tax has an impact on the price adjustment process across several periods For this reason the set up model will be programmed in mathematica where after the output will be interpreted Furthermore a possible influence of upcoming political events will be elucidated briefly before the results of the main question are stated and discussed To represent a succinct perspective there will be a brief analysis about the odds of a tax introduction and a mentioning of possible further research   *Handbook on Information Technology in Finance* Detlef Seese,Christof Weinhardt,Frank Schlottmann,2008-05-27 Why do we need a handbook on Information Technology IT and Finance At first because both IT as well as finance are some of the most prominent driving forces of our contemporary world Secondly because both areas develop with a terrific speed causing an urgent need of up to date information on recent dev opments Thirdly because serious applications of IT in Finance require specialists with a professional training and professional knowledge in both areas Over the last decades the world has seen many changes in politics economics science and legislation The driving forces behind many of these developments are of a technological nature One of the key technologies with this respect is Infor tion Technology IT is the most prominent technology revolutionizing the ind trial development from products and processes to services as well as finance which is itself one of the central pillars of modern economics The explosive velopment of the Internet emphasizes the importance of IT since it is today s key factor driving global access and availability of information and allows the division of labour on an international scale the globalization The profound transformation of finance and the financial industry over the last twenty years was driven by technological developments e g   *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 *Limitations of the Capital Asset Pricing Model (CAPM)* Manuel Kürschner,2008-07-04 Research Paper undergraduate from the year 2008 in the subject Business economics Banking Stock Exchanges Insurance Accounting grade 1 3 University of Cooperative Education language English abstract The objective of this paper is to give an overview of the most important movements of the complex area of asset pricing This will be tried by logically structuring and building up the topic from its origins the Capital Asset Pricing Model and then over its main points of critique in order to arrive at the different options developed by financial science that try to resolve those problematic aspects Due to the complexity of this subject and the limited scope of this paper obviously it will not be possible to discuss each model or movement in depth Coherently the aim is to point out the main thoughts of each aspect discussed For further information especially concerning the deeper mathematical backgrounds and derivations of the models the author would like to refer the reader to the books mentioned in this paper Many of those works finance journal publications and the literature on asset pricing in general set their focus on different parts of this paper which again underlines the complexity in terms of scientific scope and intellectual and mathematical intricacy of this topic **An Exploration of Evolutionary Methods in Macroeconomics** James Woods,2003 **Prague Economic Papers** ,2009 Quarterly journal of economic theory and policy **Agent Communication II** Frank Dignum,Rogier van Eijk,Roberto Flores,2006-12-07 This book constitutes the thoroughly refereed post proceedings of the two International Workshops on Agent Communication AC 2005 and AC 2006 held in Utrecht Netherlands in July 2005 and in Hakodate Japan in May 2006 as associated events of AAMAS 2005 2006 The 20 revised full papers cover semantics of agent communication commitments in agent communication protocols and strategies as well as reliability and overhearing **An Asset-pricing Model with Incomplete Trading Opportunities** Yoshikiyo Sakai,1986 Advances in Economics and Econometrics Econometric Society. World Congress,2006-08-14 Publisher description Bayesian Analysis in Economic Theory and Time Series Analysis Charles A. Holt,Robert W. Shore,1980 Bidding for contract A bayesian approach to the spectral analysis of stationary time series Working Paper Series ,2001 **Local Market Interactions and Aggregate Fluctuations** Randal John Verbrugge,1995 *Growth Theory: Equilibrium growth theories* Robert Becker,Edwin Burmeister,1991

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