

An overview of model reduction methods for large-scale systems

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Model Reduction Methods For Vector Autoregressive Processes

Henner Gimpel



Model Reduction Methods For Vector Autoregressive Processes:

Model Reduction Methods for Vector Autoregressive Processes Springer, 2012-09-12 *Model Reduction Methods for Vector Autoregressive Processes* Ralf Brüggemann, 2012-09-25 1 1 Objective of the Study Vector autoregressive VAR models have become one of the dominant research tools in the analysis of macroeconomic time series during the last two decades The great success of this modeling class started with Sims 1980 critique of the traditional simultaneous equation models SEM Sims criticized the use of too many incredible restrictions based on supposed a priori knowledge in large scale macroeconomic models which were popular at that time Therefore he advocated largely unrestricted reduced form multivariate time series models unrestricted VAR models in particular Ever since his influential paper these models have been employed extensively to characterize the underlying dynamics in systems of time series In particular tools to summarize the dynamic interaction between the system variables such as impulse response analysis or forecast error variance decompositions have been developed over the years The econometrics of VAR models and related quantities is now well established and has found its way into various textbooks including inter alia Lütkepohl 1991 Hamilton 1994 Enders 1995 Hendry 1995 and Greene 2002 The unrestricted VAR model provides a general and very flexible framework that proved to be useful to summarize the data characteristics of economic time series Unfortunately the flexibility of these models causes severe problems In an unrestricted VAR model each variable is expressed as a linear function of lagged values of itself and all other variables in the system *Strategic Supply Chain Management in Process Industries* Reinhard Hübner, 2007-06-13 More and more often practitioners in process industry have to adapt their global production networks to changes in the competitive environment A majority of the supply network design models proposed by academia does not sufficiently capture the economic and technical questions that have to be resolved This work seeks to provide the necessary operations research decision support tools It builds on the example of specialty chemicals industry which faces a strong increase of competitive pressure and historically grown production networks that typically lack a coherent design strategy Decision makers have to define a global production network redesign strategy Therefore the book proposes a planning process split into the two phases global production network optimization and individual site selection To support the former a comprehensive Mixed Integer Linear Programming model is proposed while an approach based on the Analytic Hierarchy Process is suggested for the latter Findings from a case study demonstrate the applicability of OR methods to real world production networks

Handbook of Computational Econometrics David A. Belsley, Erricos Kontoghiorghes, 2009-08-18 Handbook of Computational Econometrics examines the state of the art of computational econometrics and provides exemplary studies dealing with computational issues arising from a wide spectrum of econometric fields including such topics as bootstrapping the evaluation of econometric software and algorithms for control optimization and estimation Each topic is fully introduced before proceeding to a more in depth examination of the relevant methodologies and valuable illustrations This book Provides

self contained treatments of issues in computational econometrics with illustrations and invaluable bibliographies Brings together contributions from leading researchers Develops the techniques needed to carry out computational econometrics Features network studies non parametric estimation optimization techniques Bayesian estimation and inference testing methods time series analysis linear and nonlinear methods VAR analysis bootstrapping developments signal extraction software history and evaluation This book will appeal to econometricians financial statisticians econometric researchers and students of econometrics at both graduate and advanced undergraduate levels

Time Continuity in Discrete Time Models Christopher Suerie,2006-01-17 Production planning problems containing special characteristics from process industries are addressed in this book The main subject is the development of mathematical programming models that allow to model production plans which are not disrupted by discretization of time However discrete time models are used as a basis and are subsequently enhanced to include aspects of time continuity Their integration is achieved by different building blocks which may be combined freely according to the specific planning situation at hand The primary area of application of these kinds of models are process industries

Artificial Markets Modeling Andrea Consiglio,2007-08-16 Agent based computational modeling with its intrinsic multidisciplinary approach is gaining increasing recognition in the social sciences particularly in economics business and finance The methodology is now widely used to compute analytical models numerically and test them for departures from theoretical assumptions and to provide stand alone simulation models for problems that are analytically intractable This volume is devoted to recent contributions to the field from both the social sciences and computer sciences It presents applications of agent based computational methodologies and tools in the social sciences focusing strongly on the uses requirements and constraints of agent based models employed by social scientists Topics include agent based macroeconomics the emergence of norms and conventions the dynamics of social and economic networks and behavioral models in financial markets

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

Theory and Applications of Time Series Analysis Olga Valenzuela,Fernando Rojas,Luis Javier Herrera,Héctor Pomares,Ignacio Rojas,2020-11-20 This book presents a selection of peer reviewed contributions on the latest advances in time series analysis presented at the International Conference on Time Series and Forecasting ITISE 2019 held in Granada Spain on September 25 27 2019 The first two parts of the book present theoretical contributions on statistical and advanced mathematical methods and on econometric models financial forecasting and risk analysis The remaining four parts include practical contributions on time series analysis in energy complex big data time series and forecasting time series analysis with

computational intelligence and time series analysis and prediction for other real world problems Given this mix of topics readers will acquire a more comprehensive perspective on the field of time series analysis and forecasting The ITISE conference series provides a forum for scientists engineers educators and students to discuss the latest advances and implementations in the foundations theory models and applications of time series analysis and forecasting It focuses on interdisciplinary research encompassing computer science mathematics statistics and econometrics

Financial Risk Management with Bayesian Estimation of GARCH Models David Ardia,2008-05-08 This book presents in detail methodologies for the Bayesian estimation of sing regime and regime switching GARCH models These models are widespread and essential tools in n ancial econometrics and have until recently mainly been estimated using the classical Maximum Likelihood technique As this study aims to demonstrate the Bayesian approach o ers an attractive alternative which enables small sample results robust estimation model discrimination and probabilistic statements on nonlinear functions of the model parameters The author is indebted to numerous individuals for help in the preparation of this study Primarily I owe a great debt to Prof Dr Philippe J Deschamps who inspired me to study Bayesian econometrics suggested the subject guided me under his supervision and encouraged my research I would also like to thank Prof Dr Martin Wallmeier and my colleagues of the Department of Quantitative Economics in particular Michael Beer Roberto Cerratti and Gilles Kaltenrieder for their useful comments and discussions I am very indebted to my friends Carlos Ord as Criado Julien A Straubhaar J er ome Ph A Taillard and Mathieu Vuilleumier for their support in the elds of economics mathematics and statistics Thanks also to my friend Kevin Barnes who helped with my English in this work Finally I am greatly indebted to my parents and grandparents for their support and encouragement while I was struggling with the writing of this thesis

Term Structure Modeling and Estimation in a State Space Framework Wolfgang Lemke,2005-12-08 This book has been prepared during my work as a research assistant at the Institute for Statistics and Econometrics of the Economics Department at the University of Bielefeld Germany It was accepted as a Ph D thesis titled Term Structure Modeling and Estimation in a State Space Framework at the Department of Economics of the University of Bielefeld in November 2004 It is a pleasure for me to thank all those people who have been helpful in one way or another during the completion of this work First of all I would like to express my gratitude to my advisor Professor Joachim Frohn not only for his guidance and advice throughout the com pletion of my thesis but also for letting me have four very enjoyable years teaching and researching at the Institute for Statistics and Econometrics I am also grateful to my second advisor Professor Willi Semmler The project I worked on in one of his seminars in 1999 can really be seen as a starting point for my research on state space models I thank Professor Thomas Braun for joining the committee for my oral examination

Equity and Efficiency Considerations of Public Higher Education Salvatore Barbaro,2005-12-16 It has become part of the conventional wisdom in the economics of education that subsidies to higher education have a regressive distributional effect Given that relatively more children from wealthier families enroll in

higher education many economist assume that these subsidies to higher education have an unwanted distributional impact This volume presents new empirical evidence for the cross sectional point of view and provides an analytical framework for the longitudinal perspective The present volume also analyzes the equity and efficiency effects of widely discussed funding reforms and proposes a voluntary graduate tax *Advances in Artificial Economics* Charlotte Bruun, 2007-05-19 This book is based on presentations at AE 2006 Aalborg Denmark the second symposium on Artificial Economics As a new constructive simulation method Agent Based Computational Economics ACE has in recent years proven its strength and applicability Coverage in this volume extends to well known questions of economics like the existence of market efficiency and to questions raised by new analytical tools for example networks of social interaction *Coping with Uncertainty* Kurt Marti, Yuri Ermoliev, Marek Makowski, Georg Pflug, 2006-11-23 Ongoing global changes pose fundamentally new scientific problems requiring new concepts and tools A key issue concerns a vast variety of practically irreducible uncertainties which challenge traditional models and require new concepts and analytical tools Uncertainty can dominate as in the climate change debates Increasing the resolution of models does not always yield sufficient certainty This book presents much needed new tools for modeling and management of uncertainty **Capacity Options for Revenue Management** Rolf Hellermann, 2006-10-07 This book proposes capacity options as a flexible alternative air cargo contract type and illustrates how capacity can be priced through option contracts The analysis is accomplished by means of an analytical multivariate optimization model under price and demand uncertainty A case study using data from a leading German carrier illustrates the financial potential Finally the author shows how capacity option contracts integrate into the context of air cargo revenue management Economic Dynamics and Information Jaroslav Zajac, 2007-08-01 This book analyzes the existence of equilibria in economies having a measured space of agents and a continuum of agents and commodities Excessive homogeneity with respect to agent productivity leads to instability and non uniqueness of a given stationary state and the indeterminacy of the corresponding stationary state equilibrium Sufficient heterogeneity leads to global saddle path stability uniqueness of a given stationary state and the global uniqueness of the corresponding equilibrium **Dynamic Inventory Management in Reverse Logistics** Rainer Kleber, 2007-02-02 The integration of product recovery into regular production processes enables new opportunities for cost savings In case of a dynamic planning situation for instance when dealing with seasonality or the product life cycle new motives for keeping stock arise The work aims to identify those motives and to describe their effects by using methods of optimal control theory **The Employment Effects of Technological Change** Jens Rubart, 2007-08-15 The labor markets of important OECD countries show a similar picture high wages and low unemployment for skilled workers and low wages but high unemployment for low skilled workers During the last 10 years this fact has been studied under the hypothesis of skill biased technological change within the context of endogenous growth models Recent research however has shown that the employment and wage differentials vary at business cycle frequencies

This book provides an empirical and theoretical examination of the short and medium run impacts of technological advances on the employment and wages of workers which differ in their earned educational degree Furthermore by introducing labor market frictions and wage setting institutions the author shows the importance of such imperfections in order to replicate empirical facts Due to the introduction of employment protection mechanisms and minimum wages the analysis accounts for key facts of continental European labor markets

Preferences in Negotiations Henner Gimpel,2007-06-13 Negotiations are ubiquitous in business politics and private life In many cases their outcome is of great importance Yet negotiators frequently act irrationally and fail to reach mutually beneficial agreements Cognitive biases like overconfidence egocentrism and the mythical fixed pie illusion oftentimes foreclose profitable results A further cognitive bias is the attachment effect Parties are influenced by their subjective expectations formed on account of the exchange of offers they form reference points and loss aversion potentially leads to a change of preferences when expectations change This book presents a motivation formalization and substantiation of the attachment effect Thereby preferences and behavior are approached from a microeconomic and a psychological perspective Two experiments show clear evidence for a systematic bias The results can be used for prescriptive advice to negotiators either for debiasing or to systematically affect the counterparty

Learning in Economic Systems with Expectations Feedback Jan Wenzelburger,2006-09-22 Recently economists have more and more focussed on scenarios in which agents views of the world may be erroneous These notes introduce the concept of perfect forecasting rules which provide best least squares predictions along the evolution of an economic system The framework for nonparametric adaptive learning schemes is developed and it is argued that plausible learning schemes should aim at estimating a perfect forecasting rule taking into account the correct feedback structure of an economy A link is provided between the traditional rational expectations view and recent behavioristic approaches

Pricing Interest-Rate Derivatives Markus Bouziane,2008-03-18 The author derives an efficient and accurate pricing tool for interest rate derivatives within a Fourier transform based pricing approach which is generally applicable to exponential affine jump diffusion models

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