

Wolfgang Lemke

Term Structure Modeling and Estimation in a State Space Framework



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Term Structure Modeling And Estimation In A State Space Framework

Felix Geiger



Term Structure Modeling And Estimation In A State Space Framework:

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 completion 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

Theoretical and Empirical Analysis of Common Factors in a Term Structure Model Ting Ting Huang, 2009-10-02 This paper is the first that completely studies dynamical and cross sectional structures of bonds typically used as risk free assets in mathematical finance on the independence of the common factors with the empirical copula During the last decade financial models based empirically on common factors have acquired increasing popularity in risk management and asset pricing Much has been published on the subject but the technical nature of most papers makes them difficult for non specialists to understand and the mathematical tools required for applications can be intimidating Although many of the copula models used in finance are theoretical the nature of financial data suggests the empirical copula is more appropriate for forecasting and accurately describing returns volatility and interdependence

On the Estimation of Term Structure Models and An Application to the United States International Monetary Fund, 2010-11-01 This paper discusses the estimation of models of the term structure of interest rates After reviewing the term structure models specifically the Nelson Siegel Model and Affine Term Structure Model this paper estimates the terms structure of Treasury bond yields for the United States with pre crisis data This paper uses a software developed by Fund staff for this purpose This software makes it possible to estimate the term structure using at least nine models while opening up the possibility of generating simulated paths of the term structure

Computational Aspects of General Equilibrium Theory Donald Brown, Felix Kubler, 2008-01-08 This monograph presents a general equilibrium methodology for microeconomic policy analysis It is intended to serve as an alternative to the now classical axiomatic general equilibrium theory as expounded in Debreu's Theory of Value 1959 or Arrow and Hahn's General Competitive Analysis 1971 The monograph consists of several essays written over the last decade It also contains an appendix by Charles Steinhorn on the elements of O minimal structures

Complex Systems Approach to Economic Dynamics Abraham C.-L. Chian, 2007-07-13 Economic Systems exhibit complex dynamics evidenced by large amplitude and aperiodic fluctuations in

economic variables such as foreign exchange rates and stock market prices indicating that these systems are driven far from the equilibrium Characterization of the complex behavior of economic cycles by identifying regular and irregular patterns and regime switching in economic time series is the key for pattern recognition and forecasting of economic cycles Statistical analysis of stock markets and foreign exchange markets has demonstrated the intermittent nature of economic time series A nonlinear model of business cycles is able to simulate intermittency arising from order chaos and chaos chaos transitions This monograph introduces new concepts of unstable periodic orbits and chaotic saddles which are unstable structures embedded in a chaotic attractor responsible for economic intermittency The Yield Curve and Financial Risk Premia Felix Geiger,2011-08-17

The determinants of yield curve dynamics have been thoroughly discussed in finance models However little can be said about the macroeconomic factors behind the movements of short and long term interest rates as well as the risk compensation demanded by financial investors By taking on a macro finance perspective the book s approach explicitly acknowledges the close feedback between monetary policy the macroeconomy and financial conditions Both theoretical and empirical models are applied in order to get a profound understanding of the interlinkages between economic activity the conduct of monetary policy and the underlying macroeconomic factors of bond price movements Moreover the book identifies a broad risk taking channel of monetary transmission which allows a reassessment of the role of financial constraints it enables policy makers to develop new guidelines for monetary policy and for financial supervision of how to cope with evolving financial imbalances **Market-Consistent Actuarial Valuation** Mario V. Wüthrich,Hans Bühlmann,Hansjörg Furrer,2010-09-02

It is a challenging task to read the balance sheet of an insurance company This derives from the fact that different positions are often measured by different yardsticks Assets for example are mostly valued at market prices whereas liabilities are often measured by established actuarial methods However there is a general agreement that the balance sheet of an insurance company should be measured in a consistent way Market Consistent Actuarial Valuation presents powerful methods to measure liabilities and assets in a consistent way The mathematical framework that leads to market consistent values for insurance liabilities is explained in detail by the authors Topics covered are stochastic discounting with deflators valuation portfolio in life and non life insurance probability distortions asset and liability management financial risks insurance technical risks and solvency Sports Leagues Scheduling Dirk Briskorn,2008-01-08

In the context of sports leagues scheduling SLS several groups interests must be taken into account This book treats requirements for sport leagues schedules to be realizable from an operational and a security point of view attractive for spectators and TV channels and fair for the competing teams Formal problem definitions as well as integer programming models are presented and analyzed

Pension Systems, Demographic Change, and the Stock Market Marten Hillebrand,2008-10-16 Due to the accelerating demographic change of the population the reform of the existing pension systems constitutes one of the greatest political challenges in most European countries A theoretical discussion of different pension reforms must incorporate not

only the demographic aspect but also the role of financial market risk and the impact on production and employment. These notes develop a dynamic macroeconomic model which incorporates these aspects within a flexible theoretical framework. The proposed approach provides a large scale population model and features a sound description of the production side as well as of the financial side of the economy and their interactions with the pension system. Within this framework various adjustment policies of the pension system are studied under different population scenarios. The consequences for the economy and the welfare of consumers are analyzed and compared.

Financial Modeling, Actuarial Valuation and Solvency in Insurance Mario V. Wüthrich, Michael Merz, 2013-04-04 Risk management for financial institutions is one of the key topics the financial industry has to deal with. The present volume is a mathematically rigorous text on solvency modeling. Currently there are many new developments in this area in the financial and insurance industry: Basel III and Solvency II, but none of these developments provides a fully consistent and comprehensive framework for the analysis of solvency questions. Merz and Wüthrich combine ideas from financial mathematics, no arbitrage theory, equivalent martingale measure, actuarial sciences, insurance claims modeling, cash flow valuation, and economic theory, risk aversion, probability distortion, to provide a fully consistent framework. Within this framework they then study solvency questions in incomplete markets, analyze hedging risks, and study asset and liability management questions as well as issues like the limited liability options dividend to shareholder questions, the role of reinsurance, etc. This work embeds the solvency discussion and long term liabilities into a scientific framework and is intended for researchers as well as practitioners in the financial and actuarial industry, especially those in charge of internal risk management systems. Readers should have a good background in probability theory and statistics and should be familiar with popular distributions, stochastic processes, martingales, etc.

Asset Pricing B. Philipp Kellerhals, 2012-11-02 The modern field of asset pricing asks for sound pricing models grounded on the theory of financial economies à la Ingersoll (1987) as well as for accurate estimation techniques à la Hamilton (1994b) when it comes to empirical inferences of the specified model. The idea behind this book on hand is to provide the reader with a canonical framework that shows how to bridge the gap between the continuous time pricing practice in financial engineering and the capital market data inevitably only available at discrete time intervals. Three major financial markets are to be examined for which we select the equity market, the bond market, and the electricity market. In each market we derive new valuation models to price selected financial instruments in continuous time. The decision criterion for choosing a continuous time modeling framework is the richness of the stochastic theory available for continuous time processes with Merton's pioneering contributions to financial economics collected in Merton (1992). The continuous time framework reviewed and assessed by Sundaresan (2000) allows us to obtain analytical pricing formulae that would be unavailable in a discrete time setting. However, at the time of implementing the derived theoretical pricing models on market data that is necessarily sampled at discrete time intervals we work with so called exact discrete time equivalents à la Bergstrom (1984). We show how to conveniently work within a state

space framework which we derive in a general setting as well as explicitly for each of the three applications *An Assessment of Estimates of Term Structure Models for the United States* Ying He, Mr. Carlos I. Medeiros, 2011-10-01 The paper assesses estimates of term structure models for the United States To this end this paper first describes the mathematics underlying two types of term structure models namely the Nelson Siegel and Cox Ingersoll and Ross family of models and the estimation techniques It then presents estimations of some of specific models within these families of models three factor Nelson Siegel Model four factor Svensson model and preference free two factor Cox Ingersoll and Roll model for the United States from 1972 to mid 2011 It subsequently provides an assessment of the estimations It concludes that these estimations of the term structure models successfully capture the dynamics of the term structure in the United States

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 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, 2007-10-30 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 *Model Risk In Financial Markets: From Financial Engineering To Risk Management* Radu Sebastian Tunaru, 2015-06-08 The financial systems in most developed countries today build up a large amount of model risk on a daily basis However this is not particularly visible as the financial risk management agenda is still dominated by the subprime liquidity crisis the sovereign crises and other major political events Losses caused by model risk are hard to identify and even when they are internally identified as such they are most likely to be classified as normal losses due to market evolution Model Risk in Financial Markets From Financial Engineering to Risk Management seeks to change

the current perspective on model innovation implementation and validation This book presents a wide perspective on model risk related to financial markets running the gamut from financial engineering to risk management from financial mathematics to financial statistics It combines theory and practice both the classical and modern concepts being introduced for financial modelling Quantitative finance is a relatively new area of research and much has been written on various directions of research and industry applications In this book the reader gradually learns to develop a critical view on the fundamental theories and new models being proposed

The Theory of Perfect Learning Nonvikan Karl-Augustt Alahassa, 2021-08-17 The perfect learning exists We mean a learning model that can be generalized and moreover that can always fit perfectly the test data as well as the training data We have performed in this thesis many experiments that validate this concept in many ways The tools are given through the chapters that contain our developments The classical Multilayer Feedforward model has been re considered and a novel N_k architecture is proposed to fit any multivariate regression task This model can easily be augmented to thousands of possible layers without loss of predictive power and has the potential to overcome our difficulties simultaneously in building a model that has a good fit on the test data and don't overfit His hyper parameters the learning rate the batch size the number of training times epochs the size of each layer the number of hidden layers all can be chosen experimentally with cross validation methods There is a great advantage to build a more powerful model using mixture models properties They can self classify many high dimensional data in a few numbers of mixture components This is also the case of the Shallow Gibbs Network model that we built as a Random Gibbs Network Forest to reach the performance of the Multilayer feedforward Neural Network in a few numbers of parameters and fewer backpropagation iterations To make it happens we propose a novel optimization framework for our Bayesian Shallow Network called the Double Backpropagation Scheme DBS that can also fit perfectly the data with appropriate learning rate and which is convergent and universally applicable to any Bayesian neural network problem The contribution of this model is broad First it integrates all the advantages of the Potts Model which is a very rich random partitions model that we have also modified to propose its Complete Shrinkage version using agglomerative clustering techniques The model takes also an advantage of Gibbs Fields for its weights precision matrix structure mainly through Markov Random Fields and even has five variants structures at the end the Full Gibbs the Sparse Gibbs the Between layer Sparse Gibbs which is the B Sparse Gibbs in a short the Compound Symmetry Gibbs CS Gibbs in short and the Sparse Compound Symmetry Gibbs Sparse CS Gibbs model The Full Gibbs is mainly to remind fully connected models and the other structures are useful to show how the model can be reduced in terms of complexity with sparsity and parsimony All those models have been experimented and the results arouse interest in those structures in a sense that different structures help to reach different results in terms of Mean Squared Error MSE and Relative Root Mean Squared Error RRMSE For the Shallow Gibbs Network model we have found the perfect learning framework it is the l_1 boldsymbol $\zeta \epsilon_{\text{dbf}}$ DBS configuration which is a combination of the

emph Universal Approximation Theorem and the DBS optimization coupled with the emph dist Nearest Neighbor h Taylor Series Perfect Multivariate Interpolation emph dist NN h TS PMI model which in turn is a combination of the research of the Nearest Neighborhood for a good Train Test association the Taylor Approximation Theorem and finally the Multivariate Interpolation Method It indicates that with an appropriate number l_1 of neurons on the hidden layer an optimal number ζ of DBS updates an optimal DBS learning rate ϵ_{dbs} an optimal distance $\text{emph dist}_{\text{opt}}$ in the research of the nearest neighbor in the training dataset for each test data x_i an optimal order h_{opt} of the Taylor approximation for the Perfect Multivariate Interpolation emph dist NN h TS PMI model once the bfseries DBS has overfitted the training dataset the train and the test error converge to zero 0 As the Potts Models and many random Partitions are based on a similarity measure we open the door to find emph sufficient invariants descriptors in any recognition problem for complex objects such as image using emph metric learning and invariance descriptor tools to always reach 100 % accuracy This is also possible with invariant networks that are also universal approximators Our work closes the gap between the theory and the practice in artificial intelligence in a sense that it confirms that it is possible to learn with very small error allowed

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 single regime and regime switching GARCH models These models are widespread and essential tools in financial econometrics and have until recently mainly been estimated using the classical Maximum Likelihood technique As this study aims to demonstrate the Bayesian approach offers 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 Jerome Ph A Taillard and Mathieu Vuilleumier for their support in the fields 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

Partner Choice and Cooperation in Networks Aljaž Ule, 2008-01-10 In this book a social dilemma with partner selection is introduced and studied with the methods of formal game theory experimental economics and computer simulations It allows exploration of simultaneous dynamics of the network structure and cooperative behavior on this structure The results of this study show that partner choice strongly facilitates cooperation and leads to networks where free riders are likely to be excluded

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

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