

**Robert J. Elliott
Lakhdar Aggoun
John B. Moore**

Hidden Markov Models

Estimation and Control

Hidden Markov Models Estimation And Control

G. George Yin, Qing Zhang



Hidden Markov Models Estimation And Control:

Hidden Markov Models Robert J Elliott, Lakhdar Aggoun, John B. Moore, 2008-09-27 As more applications are found interest in Hidden Markov Models continues to grow Following comments and feedback from colleagues students and other working with Hidden Markov Models the corrected 3rd printing of this volume contains clarifications improvements and some new material including results on smoothing for linear Gaussian dynamics In Chapter 2 the derivation of the basic filters related to the Markov chain are each presented explicitly rather than as special cases of one general filter Furthermore equations for smoothed estimates are given The dynamics for the Kalman filter are derived as special cases of the authors general results and new expressions for a Kalman smoother are given The Chapters on the control of Hidden Markov Chains are expanded and clarified The revised Chapter 4 includes state estimation for discrete time Markov processes and Chapter 12 has a new section on robust control

Hidden Markov Models Robert James Elliott, Lakhdar Aggoun, John B. Moore, *Hidden Markov Models* Przemyslaw Dymarski, 2011-04-19 Hidden Markov Models HMMs although known for decades have made a big career nowadays and are still in state of development This book presents theoretical issues and a variety of HMMs applications in speech recognition and synthesis medicine neurosciences computational biology bioinformatics seismology environment protection and engineering I hope that the reader will find this book useful and helpful for their own research

Hidden Markov Models in Finance Rogemar S. Mamon, Robert J. Elliott, 2014-05-14 Since the groundbreaking research of Harry Markowitz into the application of operations research to the optimization of investment portfolios finance has been one of the most important areas of application of operations research The use of hidden Markov models HMMs has become one of the hottest areas of research for such applications to finance This handbook offers systemic applications of different methodologies that have been used for decision making solutions to the financial problems of global markets As the follow up to the authors Hidden Markov Models in Finance 2007 this offers the latest research developments and applications of HMMs to finance and other related fields Amongst the fields of quantitative finance and actuarial science that will be covered are interest rate theory fixed income instruments currency market annuity and insurance policies with option embedded features investment strategies commodity markets energy high frequency trading credit risk numerical algorithms financial econometrics and operational risk Hidden Markov Models in Finance Further Developments and Applications Volume II presents recent applications and case studies in finance and showcases the formulation of emerging potential applications of new research over the book's 11 chapters This will benefit not only researchers in financial modeling but also others in fields such as engineering the physical sciences and social sciences Ultimately the handbook should prove to be a valuable resource to dynamic researchers interested in taking full advantage of the power and versatility of HMMs in accurately and efficiently capturing many of the processes in the financial market

Hidden Markov Models for Bioinformatics T. Koski, 2001-11-30 The purpose of this book is to give a thorough and

systematic introduction to probabilistic modeling in bioinformatics The book contains a mathematically strict and extensive presentation of the kind of probabilistic models that have turned out to be useful in genome analysis Questions of parametric inference selection between model families and various architectures are treated Several examples are given of known architectures e g profile HMM used in genome analysis Audience This book will be of interest to advanced undergraduate and graduate students with a fairly limited background in probability theory but otherwise well trained in mathematics and already familiar with at least some of the techniques of algorithmic sequence analysis Stochastic Integration and Differential Equations Philip Protter, 2013-12-21 It has been 15 years since the first edition of Stochastic Integration and Differential Equations A New Approach appeared and in those years many other texts on the same subject have been published often with connections to applications especially mathematical finance Yet in spite of the apparent simplicity of approach none of these books has used the functional analytic method of presenting semimartingales and stochastic integration Thus a 2nd edition seems worthwhile and timely though it is no longer appropriate to call it a new approach The new edition has several significant changes most prominently the addition of exercises for solution These are intended to supplement the text but lemmas needed in a proof are never relegated to the exercises Many of the exercises have been tested by graduate students at Purdue and Cornell Universities Chapter 3 has been completely redone with a new more intuitive and simultaneously elementary proof of the fundamental Doob Meyer decomposition theorem the more general version of the Girsanov theorem due to Lenglart the Kazamaki Novikov criteria for exponential local martingales to be martingales and a modern treatment of compensators Chapter 4 treats sigma martingales important in finance theory and gives a more comprehensive treatment of martingale representation including both the Jacod Yor theory and Emery's examples of martingales that actually have martingale representation thus going beyond the standard cases of Brownian motion and the compensated Poisson process New topics added include an introduction to the theory of the expansion of filtrations a treatment of the Fefferman martingale inequality and that the dual space of the martingale space H^1 can be identified with BMO martingales Solutions to selected exercises are available at the web site of the author with current URL <http://www.orie.cornell.edu/protter/books.html> *Inference and Learning from Data* Ali H. Sayed, 2022-12-22 Discover techniques for inferring unknown variables and quantities with the second volume of this extraordinary three volume set

Graphical Models Michael Irwin Jordan, Terrence Joseph Sejnowski, 2001 This book exemplifies the interplay between the general formal framework of graphical models and the exploration of new algorithm and architectures The selections range from foundational papers of historical importance to results at the cutting edge of research Graphical models use graphs to represent and manipulate joint probability distributions They have their roots in artificial intelligence statistics and neural networks The clean mathematical formalism of the graphical models framework makes it possible to understand a wide variety of network based approaches to computation and in particular to understand many neural network algorithms

and architectures as instances of a broader probabilistic methodology It also makes it possible to identify novel features of neural network algorithms and architectures and to extend them to more general graphical models This book exemplifies the interplay between the general formal framework of graphical models and the exploration of new algorithms and architectures The selections range from foundational papers of historical importance to results at the cutting edge of research Contributors H Attias C M Bishop B J Frey Z Ghahramani D Heckerman G E Hinton R Hofmann R A Jacobs Michael I Jordan H J Kappen A Krogh R Neal S K Riis F B Rodriguez L K Saul Terrence J Sejnowski P Smyth M E Tipping V Tresp Y Weiss

Continuous-Time Markov Chains and Applications G. George Yin, Qing Zhang, 2012-11-14 This book gives a systematic treatment of singularly perturbed systems that naturally arise in control and optimization queueing networks manufacturing systems and financial engineering It presents results on asymptotic expansions of solutions of Komogorov forward and backward equations properties of functional occupation measures exponential upper bounds and functional limit results for Markov chains with weak and strong interactions To bridge the gap between theory and applications a large portion of the book is devoted to applications in controlled dynamic systems production planning and numerical methods for controlled Markovian systems with large scale and complex structures in the real world problems This second edition has been updated throughout and includes two new chapters on asymptotic expansions of solutions for backward equations and hybrid LQG problems The chapters on analytic and probabilistic properties of two time scale Markov chains have been almost completely rewritten and the notation has been streamlined and simplified This book is written for applied mathematicians engineers operations researchers and applied scientists Selected material from the book can also be used for a one semester advanced graduate level course in applied probability and stochastic processes

Locating, Classifying and Countering Agile Land Vehicles David D. Swarder, John E. Boyd, 2015-07-28 This book examines real time target tracking and identification algorithms with a focus on tracking an agile target The authors look at several problems in which the tradeoff of accuracy and confidence must be made These issues are explored within the context of specific tracking scenarios chosen to illustrate the tradeoffs in a simple and direct manner The text covers the Gaussian wavelet estimator GWE which has a flexible architecture that is able to fuse uncommon sensor combinations with non temporal structural constraints

State-Space Models Yong Zeng, Shu Wu, 2013-08-15 State space models as an important mathematical tool has been widely used in many different fields This edited collection explores recent theoretical developments of the models and their applications in economics and finance The book includes nonlinear and non Gaussian time series models regime switching and hidden Markov models continuous or discrete time state processes and models of equally spaced or irregularly spaced discrete or continuous observations The contributed chapters are divided into four parts The first part is on Particle Filtering and Parameter Learning in Nonlinear State Space Models The second part focuses on the application of Linear State Space Models in Macroeconomics and Finance The third part deals with Hidden Markov Models Regime Switching and

Mathematical Finance and the fourth part is on Nonlinear State Space Models for High Frequency Financial Data The book will appeal to graduate students and researchers studying state space modeling in economics statistics and mathematics as well as to finance professionals

Recent Trends in Networks and Communications Natarajan Meghanathan, Selma Boumerdassi, Nabendu Chaki, Dhinakaran Nagamalai, 2010-07-07 The Second International Conference on Networks and Communications NeCoM 2010 the Second International Conference on Wireless and Mobile Networks WiMoN 2010 and the Second International Conference on Web and Semantic Technology WeST 2010 were held in Chennai India during July 23 25 2010 They attracted many local and international delegates presenting a balanced mixture of intellects from the East and from the West The goal of these conferences is to bring together researchers and practitioners from academia and industry to focus on understanding computer networks wireless networks mobile networks and the Web semantic technologies and to establish new collaborations in these areas Authors are invited to contribute to the conference by submitting articles that illustrate research results projects survey work and industrial experiences describing significant advances in the areas of all computer networks and Semantic Web technologies The NeCoM 2010 WiMoN 2010 and WeST 2010 committees rigorously invited submissions for many months from researchers scientists engineers students and practitioners related to the relevant themes and tracks of the workshop This effort guaranteed submissions from an unparalleled number of internationally recognized top level researchers All the submissions underwent a strenuous peer review process which comprised expert reviewers These reviewers were selected from a talented pool of Technical Committee members and external reviewers on the basis of their expertise The papers were then reviewed based on their contributions technical content originality and clarity

Handbook of Research on Information and Cyber Security in the Fourth Industrial Revolution Fields, Ziska, 2018-06-22 The prominence and growing dependency on information communication technologies in nearly every aspect of life has opened the door to threats in cyberspace Criminal elements inside and outside organizations gain access to information that can cause financial and reputational damage Criminals also target individuals daily with personal devices like smartphones and home security systems who are often unaware of the dangers and the privacy threats around them The Handbook of Research on Information and Cyber Security in the Fourth Industrial Revolution is a critical scholarly resource that creates awareness of the severity of cyber information threats on personal business governmental and societal levels The book explores topics such as social engineering in information security threats to cloud computing and cybersecurity resilience during the time of the Fourth Industrial Revolution As a source that builds on available literature and expertise in the field of information technology and security this publication proves useful for academicians educationalists policy makers government officials students researchers and business leaders and managers

Numerical Solution of Stochastic Differential Equations Peter E. Kloeden, Eckhard Platen, 2013-04-17 The aim of this book is to provide an accessible introduction to stochastic differential equations and their applications together with a systematic presentation of methods

available for their numerical solution During the past decade there has been an accelerating interest in the development of numerical methods for stochastic differential equations SDEs This activity has been as strong in the engineering and physical sciences as it has in mathematics resulting inevitably in some duplication of effort due to an unfamiliarity with the developments in other disciplines Much of the reported work has been motivated by the need to solve particular types of problems for which even more so than in the deterministic context specific methods are required The treatment has often been heuristic and ad hoc in character Nevertheless there are underlying principles present in many of the papers an understanding of which will enable one to develop or apply appropriate numerical schemes for particular problems or classes of problems

Random Walks in the Quarter-Plane Guy Fayolle, Roudolf Iasnogorodski, Vadim Malyshev, 2012-12-06
Historical Comments Two dimensional random walks in domains with non smooth boundaries interest several groups of the mathematical community In fact these objects are encountered in pure probabilistic problems as well as in applications involving queueing theory This monograph aims at promoting original mathematical methods to determine the invariant measure of such processes Moreover as it will emerge later these methods can also be employed to characterize the transient behavior It is worth to place our work in its historical context This book has three sources 1 Boundary value problems for functions of one complex variable 2 Singular integral equations Wiener Hopf equations Toeplitz operators 3 Random walks on a half line and related queueing problems The first two topics were for a long time in the center of interest of many well known mathematicians Riemann Sokhotski Hilbert Plemelj Carleman Wiener Hopf This one dimensional theory took its final form in the works of Krein Muskhelishvili Gakhov Gokhberg etc The third point and the related probabilistic problems have been thoroughly investigated by Spitzer Feller Baxter Borovkov Cohen etc

Large Deviations Techniques and Applications
Amir Dembo, Ofer Zeitouni, 2009-11-03 Large deviation estimates have proved to be the crucial tool required to handle many questions in statistics engineering statistical mechanics and applied probability Amir Dembo and Ofer Zeitouni two of the leading researchers in the field provide an introduction to the theory of large deviations and applications at a level suitable for graduate students The mathematics is rigorous and the applications come from a wide range of areas including electrical engineering and DNA sequences The second edition printed in 1998 included new material on concentration inequalities and the metric and weak convergence approaches to large deviations General statements and applications were sharpened new exercises added and the bibliography updated The present soft cover edition is a corrected printing of the 1998 edition

Statistical Image Processing and Multidimensional Modeling Paul Fieguth, 2010-10-17 Images are all around us The proliferation of low cost high quality imaging devices has led to an explosion in acquired images When these images are acquired from a microscope telescope satellite or medical imaging device there is a statistical image processing task the inference of something an artery a road a DNA marker an oil spill from imagery possibly noisy blurry or incomplete A great many textbooks have been written on image processing However this book does not so much focus on images per se but

rather on spatial data sets with one or more measurements taken over a two or higher dimensional space and to which standard image processing algorithms may not apply There are many important data analysis methods developed in this text for such statistical image problems Examples abound throughout remote sensing satellite data mapping data assimilation climate change studies land use medical imaging organ segmentation anomaly detection computer vision image classification segmentation and other 2D 3D problems biological imaging porous media The goal then of this text is to address methods for solving multidimensional statistical problems The text strikes a balance between mathematics and theory on the one hand versus applications and algorithms on the other by deliberately developing the basic theory Part I the mathematical modeling Part II and the algorithmic and numerical methods Part III of solving a given problem The particular emphases of the book include inverse problems multidimensional modeling random fields and hierarchical methods *Stochastic Approximation and Recursive Algorithms and Applications* Harold Kushner,G. George Yin,2013-11-11 In recent years algorithms of the stochastic approximation type have found applications in new and diverse areas and new techniques have been developed for proofs of convergence and rate of convergence The actual and potential applications in signal processing have exploded New challenges have arisen in applications to adaptive control This book presents a thorough coverage of the ODE method used to analyze these algorithms Fundamentals of Queueing Networks Hong Chen,David D. Yao,2013-04-17 The objective of this book is to collect in a single volume the essentials of stochastic networks from the classical product form theory to the more recent developments such as diffusion and fluid limits stochastic comparisons stability control dynamic scheduling and optimization The selection of materials inevitably is a reflection upon our bias and preference but it is also driven to a large extent by our desire to provide a graduate level text that is well balanced in breadth and depth suitable for the classroom Given the wide ranging applications of stochastic networks in recent years from supply chains to telecommunications it is also our hope that the book will serve as a useful reference for researchers and students alike in these diverse fields The book consists of three parts The first part Chapters 1 through 4 covers continuous time Markov chain models including the classical Jackson and Kelly networks the notion of quasi reversible queues and stochastic comparisons The second part Chapters 5 through 10 focuses on Brownian models including limit theorems for generalized Jackson networks and multiclass feedforward networks an in depth examination of stability in a Kumar Seidman network and Brownian approximations for general multiclass networks with a mixture of priority and first in first out disciplines The third part Chapters 11 and 12 discusses scheduling in both queueing stochastic and fluid deterministic networks along with topics such as conservation laws polymatroid optimization and linear programming *Martingale Methods in Financial Modelling* Marek Musiela,2013-06-29 The origin of this book can be traced to courses on financial mathematics taught by us at the University of New South Wales in Sydney Warsaw University of Technology Politechnika Warszawska and Institut National Polytechnique de Grenoble Our initial aim was to write a short text around the material used in two one semester graduate

courses attended by students with diverse disciplinary backgrounds mathematics physics computer science engineering economics and commerce The anticipated diversity of potential readers explains the somewhat unusual way in which the book is written It starts at a very elementary mathematical level and does not assume any prior knowledge of financial markets Later it develops into a text which requires some familiarity with concepts of stochastic calculus the basic relevant notions and results are collected in the appendix Over time what was meant to be a short text acquired a life of its own and started to grow The final version can be used as a textbook for three one semester courses one at undergraduate level the other two as graduate courses The first part of the book deals with the more classical concepts and results of arbitrage pricing theory developed over the last thirty years and currently widely applied in financial markets The second part devoted to interest rate modelling is more subjective and thus less standard A concise survey of short term interest rate models is presented However the special emphasis is put on recently developed models built upon market interest rates

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