Recursive Estimation and Control for Stochastic Systems (Wiley Series in Probability and Statistics)

Chen, Han-Fu

Recursive Estimation And Control For Stochastic Systems

Pieter W. Otter

Recursive Estimation And Control For Stochastic Systems:

Recursive Estimation and Control for Stochastic Systems Hanfu Chen,1985 This self contained reference for statisticians and engineers in system and control theory analyzes the effect of convergent recursive estimation algorithms and stochastic approximation on the dependent noise case and the classic independent case It discusses control and adaptive control problems related to recursive estimation and introduces the combined probabilistic and differential equation method of data analysis   Recursive Estimation and Control of Nonlinear Stochastic System Vincent P. Leung,1975   **Linear Stochastic Systems** Peter E. Caines,2018-06-12 Linear Stochastic Systems originally published in 1988 is today as comprehensive a reference to the theory of linear discrete time parameter systems as ever Its most outstanding feature is the unified presentation including both input output and state space representations of stochastic linear systems together with their interrelationships The author first covers the foundations of linear stochastic systems and then continues through to more sophisticated topics including the fundamentals of stochastic processes and the construction of stochastic systems an integrated exposition of the theories of prediction realization modeling parameter estimation and control and a presentation of stochastic adaptive control theory Written in a clear concise manner and accessible to graduate students researchers and teachers this classic volume also includes background material to make it self contained and has complete proofs for all the principal results of the book Furthermore this edition includes many corrections of errata collected over the years

Stochastic Control N.K. Sinha,L.A. Telksnys,2014-05-23 Stochastic control the control of random processes has become increasingly more important to the systems analyst and engineer The Second IFAC Symposium on Stochastic Control represents current thinking on all aspects of stochastic control both theoretical and practical and as such represents a further advance in the understanding of such systems   Kalman Filtering Charles K. Chui,Guanrong Chen,2017-03-21 This new edition presents a thorough discussion of the mathematical theory and computational schemes of Kalman filtering The filtering algorithms are derived via different approaches including a direct method consisting of a series of elementary steps and an indirect method based on innovation projection Other topics include Kalman filtering for systems with correlated noise or colored noise limiting Kalman filtering for time invariant systems extended Kalman filtering for nonlinear systems interval Kalman filtering for uncertain systems and wavelet Kalman filtering for multiresolution analysis of random signals Most filtering algorithms are illustrated by using simplified radar tracking examples The style of the book is informal and the mathematics is elementary but rigorous The text is self contained suitable for self study and accessible to all readers with a minimum knowledge of linear algebra probability theory and system engineering Over 100 exercises and problems with solutions help deepen the knowledge This new edition has a new chapter on filtering communication networks and data processing together with new exercises and new real time applications   Kalman Filtering Mohinder S. Grewal,Angus P. Andrews,2011-09-20 This book provides readers with a solid introduction to the theoretical and practical aspects of Kalman

filtering It has been updated with the latest developments in the implementation and application of Kalman filtering including adaptations for nonlinear filtering more robust smoothing methods and developing applications in navigation All software is provided in MATLAB giving readers the opportunity to discover how the Kalman filter works in action and to consider the practical arithmetic needed to preserve the accuracy of results Note CD ROM DVD and other supplementary materials are not included as part of eBook file An Instructor s Manual presenting detailed solutions to all the problems in the book is available from the Wiley editorial department to obtain the manual send an email to ialine wiley com **Approximate Kalman Filtering** Guanrong Chen,1993 Kalman filtering algorithm gives optimal linear unbiased and minimum error variance estimates of the unknown state vectors of a linear dynamic observation system under the regular conditions such as perfect data information complete noise statistics exact linear modeling ideal well conditioned matrices in computation and strictly centralized filtering In practice however one or more of the aforementioned conditions may not be satisfied so that the standard Kalman filtering algorithm cannot be directly used and hence approximate Kalman filtering becomes necessary In the last decade a great deal of attention has been focused on modifying and or extending the standard Kalman filtering technique to handle such irregular cases It has been realized that approximate Kalman filtering is even more important and useful in applications This book is a collection of several tutorial and survey articles summarizing recent contributions to the field along the line of approximate Kalman filtering with emphasis on both its theoretical and practical aspects

System-Theoretic Methods in Economic Modelling I S. Mittnik,2014-06-28 The value of applying system theoretic concepts to economic modelling problems arises from the fact that it offers a unifying framework for modelling dynamic systems In addition to offering this powerful conceptual framework it provides a wide range of tools useful in applied work System theoretic techniques enter predominantly two stages of economic modelling efforts the stage of model construction and the stage of model application in accordance with the modelling The objective of this and subsequent volumes on System Theoretic Methods in Economic Modelling I is to initiate and or intensify dialogues between researchers and practitioners within and across the disciplines involved This first volume brings together papers exhibiting a wide range of system theoretic techniques and applications to economic problems The papers have been divided into two groups following roughly but not necessarily the above classification into the construction and application stages of economic modelling The papers in the first group focus on the identification of dynamic and static systems while the papers in the second group address dynamic optimization problems **Stochastic Systems: The Mathematics of Filtering and Identification and Applications** Michiel Hazewinkel,J.C. Williams,2012-12-06 In the last five years or so there has been an important renaissance in the area of mathematical modeling identification and stochastic control It was the purpose of the Advanced Study Institute of which the present volume constitutes the proceedings to review recent developments in this area with particular emphasis on identification and filtering and to do so in such a manner that the material is accessible to a wide variety

of both embryo scientists and the various breeds of established researchers to whom identification filtering etc are important such as control engineers time series analysts econometricians probabilists mathematical geologists and various kinds of pure and applied mathematicians all of these were represented at the ASI For these proceedings we have taken particular care to see to it that the material presented will be understandable for a quite diverse audience To that end we have added a fifth tutorial section besides the four presented at the meeting and have also included an extensive introduction which explains in detail the main problem areas and themes of these proceedings and which outlines how the various contributions fit together to form a coherent integrated whole The prerequisites needed to understand the material in this volume are modest and most graduate students in e g mathematical systems theory applied mathematics econo metrics or control engineering will qualify **Dynamic Feature Space Modelling, Filtering and Self-Tuning Control of Stochastic Systems** Pieter W. Otter,2012-12-06 The literature on systems seems to have been growing almost expo nentially during the last decade and one may question whether there is need for another book In the author s view most of the literature on systems is either technical in mathematical sense or technical ifF engineering sense with technical words such as noise filtering etc and not easily accessible to researchers is other fields in particular not to economists econometricians and quantitative researchers in so cial sciences This is unfortunate because achievements in the rather young science of system theory and system engineering are of impor tance for modelling estimation and regulation control problems in other branches of science State space mode iing the concept of ob servability and controllability the mathematical formulations of sta bility the so called canonical forms prediction error e timation optimal control and Kalman filtering are some examples of results of system theory and system engineering which proved to be successful in practice A brief summary of system theoretical concepts is given in Chapter II where an attempt has been made to translate the concepts in to the more familiar language used in econometrics and social sciences by means of examples By interrelating concepts and results from system theory with those from econometrics and social sciences the author has attempted to narrow the gap between the more technical sciences such as engi neering and social sciences and econometrics and to contribute to either side Random Iterative Models Marie Duflo,2013-03-09 Be they random or non random iterative methods have progressively gained sway with the development of computer science and automatic control theory Thus being easy to conceive and simulate stochastic processes defined by an iterative formula linear or functional have been the subject of many studies The iterative structure often leads to simpler and more explicit arguments than certain classical theories of processes On the other hand when it comes to choosing step by step decision algorithms sequential statistics control learning recursive decision methods are indispensable They lend themselves naturally to problems of the identification and control of iterative stochastic processes In recent years know how in this area has advanced greatly this is reflected in the corresponding theoretical problems many of which remain open At Whom Is This Book Aimed I thought it useful to present the basic ideas and tools relating to random

iterative models in a form accessible to a mathematician familiar with the classical concepts of probability and statistics but lacking experience in automatic control theory Thus the first aim of this book is to show young research workers that work in this area is varied and interesting and to facilitate their initiation period The second aim is to present more seasoned probabilists with a number of recent original techniques and arguments relating to iterative methods in a fairly classical environment **Mathematical Theory of Adaptive Control** Vladimir Grigor?evich Sragovich,2006 The theory of adaptive control is concerned with construction of strategies so that the controlled system behaves in a desirable way without assuming the complete knowledge of the system The models considered in this comprehensive book are of Markovian type Both partial observation and partial information cases are analyzed While the book focuses on discrete time models continuous time ones are considered in the final chapter The book provides a novel perspective by summarizing results on adaptive control obtained in the Soviet Union which are not well known in the West Comments on the interplay between the Russian and Western methods are also included Recursive Estimation and Adaptive Control in Stochastic Linear Systems Zhiliang Ying,1987 Probability Theory and Its Applications in China Shijian Yan,Chung-Chun Yang,Jiagang Wang,1991 Probability theory has always been an active field of research in China but until recently almost all of this research was written in Chinese This book contains surveys by some of China s leading probabilists with a fairly complete coverage of theoretical probability and selective coverage of applied topics The purpose of the book is to provide an account of the most significant results in probability obtained in China in the past few decades and to promote communication between probabilists in China and those in other countries This collection will be of interest to graduate students and researchers in mathematics and probability theory as well as to researchers in such areas as physics engineering biochemistry and information science Among the topics covered here are stochastic analysis stochastic differential equations Dirichlet forms Brownian motion and diffusion potential theory geometry of manifolds semi martingales jump Markov processes interacting particle systems entropy production of Markov processes renewal sequences and p functions multi parameter stochastic processes stationary random fields limit theorems strong approximations large deviations stochastic control systems and probability problems in information theory **The Shock and Vibration Digest** ,1988 *New Directions in Time Series Analysis* David Brillinger,Peter Caines,John Geweke,Emanuel Parzen,Murray Rosenblatt,Murad S. Taqqu,2012-12-06 This IMA Volume in Mathematics and its Applications NEW DIRECTIONS IN TIME SERIES ANALYSIS PART II is based on the proceedings of the IMA summer program New Directions in Time Series Analysis We are grateful to David Brillinger Peter Caines John Geweke Emanuel Parzen Murray Rosenblatt and Murad Taqqu for organizing the program and we hope that the remarkable excitement and enthusiasm of the participants in this interdisciplinary effort are communicated to the reader A vner Friedman Willard Miller Jr PREFACE Time Series Analysis is truly an interdisciplinary field because development of its theory and methods requires interaction between the diverse disciplines in which it is applied To harness its great potential

strong interaction must be encouraged among the diverse community of statisticians and other scientists whose research involves the analysis of time series data This was the goal of the IMA Workshop on New Directions in Time Series Analysis The workshop was held July 2 July 27 1990 and was organized by a committee consisting of Emanuel Parzen chair David Brillinger Murray Rosenblatt Murad S Taqqu John Geweke and Peter Caines Constant guidance and encouragement was provided by Avner Friedman Director of the IMA and his very helpful and efficient staff The workshops were organized by weeks It may be of interest to record the themes that were announced in the IMA newsletter describing the workshop l

Linear Stochastic Control Systems Goong Chen,Guanrong Chen,Shih-Hsun Hsu,1995-07-12 Linear Stochastic Control Systems presents a thorough description of the mathematical theory and fundamental principles of linear stochastic control systems Both continuous time and discrete time systems are thoroughly covered Reviews of the modern probability and random processes theories and the It stochastic differential equations are provided Discrete time stochastic systems theory optimal estimation and Kalman filtering and optimal stochastic control theory are studied in detail A modern treatment of these same topics for continuous time stochastic control systems is included The text is written in an easy to understand style and the reader needs only to have a background of elementary real analysis and linear deterministic systems theory to comprehend the subject matter This graduate textbook is also suitable for self study professional training and as a handy research reference Linear Stochastic Control Systems is self contained and provides a step by step development of the theory with many illustrative examples exercises and engineering applications   *Adaptive Systems in Control and Signal Processing 1989* T.S. Durrani,D.H. Owens,M.A. Johnson,M.J. Grimble,2014-06-28 The Symposium covered three major areas adaptive control identification and signal processing In all three new developments were discussed covering both theoretical and applications research Within the subject area of adaptive control the discussion centred around the challenges of robust control design to unmodelled dynamics robust parameter estimation and enhanced performance from the estimator while the papers on identification took the theme of it being a bridge between adaptive control and signal processing The final area looked at two aspects of signal processing recursive estimation and adaptive filters   Control and System Theory of Discrete-Time Stochastic Systems Jan H. van Schuppen,2021-08-02 This book helps students researchers and practicing engineers to understand the theoretical framework of control and system theory for discrete time stochastic systems so that they can then apply its principles to their own stochastic control systems and to the solution of control filtering and realization problems for such systems Applications of the theory in the book include the control of ships shock absorbers traffic and communications networks and power systems with fluctuating power flows The focus of the book is a stochastic control system defined for a spectrum of probability distributions including Bernoulli finite Poisson beta gamma and Gaussian distributions The concepts of observability and controllability of a stochastic control system are defined and characterized Each output process considered is with respect to conditions represented by a stochastic system called a stochastic

realization The existence of a control law is related to stochastic controllability while the existence of a filter system is related to stochastic observability Stochastic control with partial observations is based on the existence of a stochastic realization of the filtration of the observed process   Tracking Control of Networked Systems via Sliding-Mode Meng Li,Yong Chen,Ikram Ali,2021-10-29 The book focuses on the research methods of networked control systems via sliding mode The problems with network disturbances network induced delay out of sequence and packet loss and network attacks are studied in detail The content studied in this book is introduced in detail and is verified by simulation or experiment It is especially suitable for readers who are interested in learning the control scheme of networked systems This book can benefit researchers engineers and students in related fields such as electrical control automation and cyber security

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