Methods of Optimal Statistical Decisions, Optimal Control, and Stochastic Differential Equations

Ellida M. Khazen

Optimal Statistical Decisions

Jakub Bijak

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Methods of Optimal Statistical Decisions, Optimal Control, and Stochastic Differential Equations Ellida M. Khazen,2009 This book provides the reader with some insight into the mathematical models of random processes with continuous time stochastic differential equations and stochastic integrals An advanced development of the mathematical methods of optimal statistical decisions statistical sequential analysis and informational estimation of risks and new methods and solutions to the important problems of the theory of optimal control are presented The new original results obtained by this author and published shortly in her numerous scientific research papers are presented in a systematic way in this book The book is intended for engineers students post graduate students and scientist researchers The presentation of the material is accessible to engineers   *Optimal Statistical Decisions* ,2005 The Wiley Classics Library consists of selected books that have become recognized classics in their respective fields With these new unabridged and inexpensive editions Wiley hopes to extend the life of these important works by making them available to future generations of mathematicians and scientists

Optimal Statistical Decisions Morris M. Degroot,1970   **Optimal Statistical Decision & Bayesian Inference in Statistical Analysis & Applied Statistical Decision Theory** Morris H. DeGroot,George E. P. Box,George C. Tiao,Howard Raiffa,Robert Schlaifer,2006-05-19 Set that includes three works covering statistical decision theory and analysis The three books within this set are Optimal Statistical Decisions Bayesian Inference in Statistical Analysis and Applied Statistical Decision Theory Optimal Statistical Decisions discusses the theory and methodology of decision making in the field The volume stands as a clear introduction to Bayesian statistical decision theory A second book Bayesian Inference in Statistical Analysis examines the application and relevance of Bayes theorem to problems that occur during scientific investigations where inferences must be made regarding parameter values about which little is known Key aspects of the Bayesian approach are discussed including the choice of prior distribution the problem of nuisance parameters and the role of sufficient statistics Applied Statistical Decision Theory covers the development of analytic techniques in the field of statistical decision theory This classic book was first published in the 1960s   Optimal Statistical Decision Morris H. de Groot,1970

Probabilistic Search for Tracking Targets Irad Ben-Gal,Eugene Kagan,2013-03-25 Presents a probabilistic and information theoretic framework for a search for static or moving targets in discrete time and space Probabilistic Search for Tracking Targets uses an information theoretic scheme to present a unified approach for known search methods to allow the development of new algorithms of search The book addresses search methods under different constraints and assumptions such as search uncertainty under incomplete information probabilistic search scheme observation errors group testing

search games distribution of search efforts single and multiple targets and search agents as well as online or offline search schemes The proposed approach is associated with path planning techniques optimal search algorithms Markov decision models decision trees stochastic local search artificial intelligence and heuristic information seeking methods Furthermore this book presents novel methods of search for static and moving targets along with practical algorithms of partitioning and search and screening Probabilistic Search for Tracking Targets includes complete material for undergraduate and graduate courses in modern applications of probabilistic search decision making and group testing and provides several directions for further research in the search theory The authors Provide a generalized information theoretic approach to the problem of real time search for both static and moving targets over a discrete space Present a theoretical framework which covers known information theoretic algorithms of search and forms a basis for development and analysis of different algorithms of search over probabilistic space Use numerous examples of group testing search and path planning algorithms to illustrate direct implementation in the form of running routines Consider a relation of the suggested approach with known search theories and methods such as search and screening theory search games Markov decision process models of search data mining methods coding theory and decision trees Discuss relevant search applications such as quality control search for nonconforming units in a batch or a military search for a hidden target Provide an accompanying website featuring the algorithms discussed throughout the book along with practical implementations procedures   *Causal Analytics for Applied Risk Analysis* Louis Anthony Cox Jr.,Douglas A. Popken,Richard X. Sun,2018-06-19 Causal analytics methods can revolutionize the use of data to make effective decisions by revealing how different choices affect probabilities of various outcomes This book presents and illustrates models algorithms principles and software for deriving causal models from data and for using them to optimize decisions with uncertain outcomes It discusses how to describe and summarize situations detect changes evaluate effects of policies or interventions learn what works best under different conditions predict values of as yet unobserved quantities from available data and identify the most likely explanations for observed outcomes including surprises and anomalies The book resents practical techniques for causal modeling and analytics that practitioners can apply to improve understanding of how choices affect probabilities of consequences and based on this understanding to recommend choices that are more likely to accomplish their intended objectives The book begins with a survey of modern analytics methods focusing mainly on techniques useful for decision risk and policy analysis Chapter 2 introduces free in browser software including the Causal Analytics Toolkit CAT software to enable readers to perform the analyses described and to apply modern analytics methods easily to their own data sets Chapters 3 through 11 show how to apply causal analytics and risk analytics to practical risk analysis challenges mainly related to public and occupational health risks from pathogens in food or from pollutants in air Chapters 12 through 15 turn to broader questions of how to improve risk management decision making by individuals groups organizations institutions and multi generation societies with different

cultures and norms for cooperation These chapters examine organizational learning community resilience societal risk management and intergenerational collaboration and justice in managing risks   Stochastic Modeling and Control Ivan Ivanov,2012-11-28 Stochastic control plays an important role in many scientific and applied disciplines including communications engineering medicine finance and many others It is one of the effective methods being used to find optimal decision making strategies in applications The book provides a collection of outstanding investigations in various aspects of stochastic systems and their behavior The book provides a self contained treatment on practical aspects of stochastic modeling and calculus including applications drawn from engineering statistics and computer science Readers should be familiar with basic probability theory and have a working knowledge of stochastic calculus PhD students and researchers in stochastic control will find this book useful   *The New Palgrave Dictionary of Economics* ,2016-05-18 The award winning The New Palgrave Dictionary of Economics 2nd edition is now available as a dynamic online resource Consisting of over 1 900 articles written by leading figures in the field including Nobel prize winners this is the definitive scholarly reference work for a new generation of economists Regularly updated This product is a subscription based product   *Statistical Decision Rules and Optimal Inference* Nikolaĭ Nikolaevich Chentsov,1982-01 Employing the latest kitchen technology to prepare both classic and contemporary French dishes this cookbook provides a selection of the author s favorite modern adaptations   *Neural Nets And Chaotic Carriers (2nd Edition)* Peter Whittle,2010-07-29 Neural Nets and Chaotic Carriers develops rational principles for the design of associative memories with a view to applying these principles to models with irregularly oscillatory operation so evident in biological neural systems and necessitated by the meaninglessness of absolute signal levels Design is based on the criterion that an associative memory must be able to cope with fading data i e to form an inference from the data even as its memory of that data degrades The resultant net shows striking biological parallels When these principles are combined with the Freeman specification of a neural oscillator some remarkable effects emerge For example the commonly observed phenomenon of neuronal bursting appears with gamma range oscillation modulated by a low frequency square wave oscillation the escapement oscillation Bridging studies and new results of artificial and biological neural networks the book has a strong research character It is on the other hand accessible to non specialists for its concise exposition on the basics a   **Forecasting International Migration in Europe: A Bayesian View** Jakub Bijak,2010-10-23 International migration is becoming an increasingly important element of contemporary demographic dynamics and yet due to its high volatility it remains the most unpredictable element of population change In Europe population forecasting is especially difficult because good quality data on migration are lacking There is a clear need for reliable methods of predicting migration since population forecasts are indispensable for rational decision making in many areas including labour markets social security or spatial planning and organisation In addressing these issues this book adopts a Bayesian statistical perspective which allows for a formal incorporation of expert judgement while describing uncertainty in a coherent and

explicit manner No prior knowledge of Bayesian statistics is assumed The outcomes are discussed from the point of view of forecast users decision makers with the aim to show the relevance and usefulness of the presented methods in practical applications   **Statistical Decision Rules and Optimal Inference** ,1980   *Preference-order Recursion for Finding Relevant Pure, Admissible and Optimal Statistical Decision Functions* Herbert Moskowitz,Jyrki Wallenius,1990   <u>Optimal Statistical Decisions in Highway Safety Related to Geometric Design</u> Lonnie E. Haefner,1900   <u>Technical Report</u> ,1995-07   **sequential methods in statistics and optimal statistical decisions** rakha,1996   **Statistics Subject Indexes from Mathematical Reviews** American Mathematical Society,1987   **Statistics: Probability, Inference, and Decision** William Lee Hays,Robert L. Winkler,1971

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