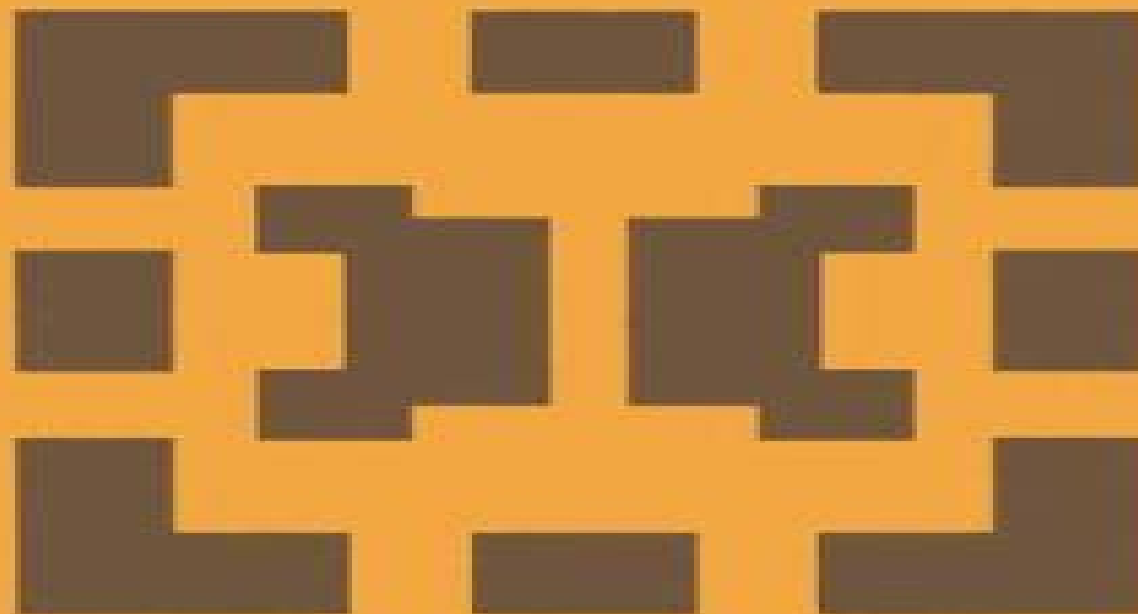


Mathematics and Its Applications

**B. E. Brodsky and
B. S. Darkhovsky**

**Nonparametric Methods
in
Change-Point Problems**



Springer-Science+Business Media, B.V.

Nonparametric Methods In Change Point Problems Mathematics And Its Applications

Anatoly Swishchuk



Nonparametric Methods In Change Point Problems Mathematics And Its Applications:

Nonparametric Methods in Change Point Problems E. Brodsky, B.S. Darkhovsky, 1993-01-31 The explosive development of information science and technology puts in new problems involving statistical data analysis These problems result from higher requirements concerning the reliability of statistical decisions the accuracy of mathematical models and the quality of control in complex systems A new aspect of statistical analysis has emerged closely connected with one of the basic questions of cybernetics how to compress large volumes of experimental data in order to extract the most valuable information from data observed Detection of large homogeneous segments of data enables one to identify hidden regularities in an object's behavior to create mathematical models for each segment of homogeneity to choose an appropriate control etc Statistical methods dealing with the detection of changes in the characteristics of random processes can be of great use in all these problems These methods have accompanied the rapid growth in data beginning from the middle of our century According to a tradition of more than thirty years we call this sphere of statistical analysis the theory of change point detection During the last fifteen years we have witnessed many exciting developments in the theory of change point detection New promising directions of research have emerged and traditional trends have flourished anew Despite this most of the results are widely scattered in the literature and few monographs exist A real need has arisen for up to date books which present an account of important current research trends one of which is the theory of non parametric change point detection

Asymptotic Nonparametric Statistical Analysis of Stationary Time Series Daniil Ryabko, 2019-03-07 Stationarity is a very general qualitative assumption that can be assessed on the basis of application specifics It is thus a rather attractive assumption to base statistical analysis on especially for problems for which less general qualitative assumptions such as independence or finite memory clearly fail However it has long been considered too general to be able to make statistical inference One of the reasons for this is that rates of convergence even of frequencies to the mean are not available under this assumption alone Recently it has been shown that while some natural and simple problems such as homogeneity are indeed provably impossible to solve if one only assumes that the data is stationary or stationary ergodic many others can be solved with rather simple and intuitive algorithms The latter include clustering and change point estimation among others In this volume these results are summarized The emphasis is on asymptotic consistency since this the strongest property one can obtain assuming stationarity alone While for most of the problem for which a solution is found this solution is algorithmically realizable the main objective in this area of research the objective which is only partially attained is to understand what is possible and what is not possible to do for stationary time series The considered problems include homogeneity testing the so called two sample problem clustering with respect to distribution clustering with respect to independence change point estimation identity testing and the general problem of composite hypotheses testing For the latter problem a topological criterion for the existence of a consistent test is presented In addition a number of open problems is presented

Algorithmic Learning Theory Sanjay Jain,Rémi Munos,Frank Stephan,Thomas Zeugmann,2013-09-27 This book constitutes the proceedings of the 24th International Conference on Algorithmic Learning Theory ALT 2013 held in Singapore in October 2013 and co located with the 16th International Conference on Discovery Science DS 2013 The 23 papers presented in this volume were carefully reviewed and selected from 39 submissions In addition the book contains 3 full papers of invited talks The papers are organized in topical sections named online learning inductive inference and grammatical inference teaching and learning from queries bandit theory statistical learning theory Bayesian stochastic learning and unsupervised semi supervised learning Multiple Stopping Problems Georgy Sofronov,Krzysztof Szajowski,2024-12-24 This book presents the theory of rational decisions involving the selection of stopping times in observed discrete time stochastic processes both by single and multiple decision makers Readers will become acquainted with the models strategies and applications of these models It begins with an examination of selected models framed as stochastic optimization challenges emphasizing the critical role of optimal stopping times in sequential statistical procedures The authors go on to explore models featuring multiple stopping and shares on leading applications particularly focusing on change point detection selection problems and the nuances of behavioral ecology In the following chapters an array of perspectives on model strategies is presented elucidating their interpretation and the methodologies underpinning their genesis Essential notations and definitions are introduced examining general theorems about solution existence and structure with an intricate analysis of optimal stopping predicaments and addressing crucial multilateral models The reader is presented with the practical application of models based on multiple stopping within stochastic processes The coverage includes a diverse array of domains including sequential statistics finance economics and the broader generalization of the best choice problem Additionally it delves into numerical and asymptotic solutions offering a comprehensive exploration of optimal stopping quandaries The book will be of interest to researchers and practitioners in fields such as economics finance and engineering It could also be used by graduate students doing a research degree in insurance economics or business analytics or an advanced undergraduate course in mathematical sciences **Decision and Game Theory for Security** John S. Baras,Jonathan Katz,Eitan Altman,2011-11-02 This book constitutes the refereed proceedings of the Second International Conference on Decision and Game Theory for Security GameSec 2011 held in College Park Maryland USA in November 2011 The 16 revised full papers and 2 plenary keynotes presented were carefully reviewed and selected from numerous submissions The papers are organized in topical sections on attacks adversaries and game theory wireless adhoc and sensor networks network games security insurance security and trust in social networks and security investments

Nonparametric Methods in Statistics and Related Topics Madan Lal Puri,2013-02-06 No detailed description available for Nonparametric Methods in Statistics and Related Topics **Mathematical Methods in Queuing Theory** Vladimir V. Kalashnikov,1993-12-31 The material of this book is based on several courses which have been delivered for a

long time at the Moscow Institute for Physics and Technology Some parts have formed the subject of lectures given at various universities throughout the world Freie Universitat of Berlin Chalmers University of Technology and the University of Goteborg University of California at Santa Barbara and others The subject of the book is the theory of queues This theory as a mathematical discipline begins with the work of A Erlang who examined a model of a telephone station and obtained the famous formula for the distribution of the number of busy lines which is named after him Queueing theory has been applied to the study of numerous models emergency aid road traffic computer systems etc Besides it has lead to several related disciplines such as reliability and inventory theories which deal with similar models Nevertheless many parts of the theory of queues were developed as a pure science with no practical applications The aim of this book is to give the reader an insight into the mathematical methods which can be used in queueing theory and to present examples of solving problems with the help of these methods Of course the choice of the methods is quite subjective Thus many prominent results have not even been mentioned

Emerging Management Mechanisms for the Future Internet Guillaume Doyen, Martin Waldburger, Pavel Celeda, Anna Sperotto, Burkhard Stiller, 2013-06-20 This book constitutes the refereed proceedings of the 7th IFIP WG 6.6 International Conference on Autonomous Infrastructure Management and Security AIMS 2013 held in Barcelona Spain in June 2013 The 11 full papers presented were carefully reviewed and selected from 32 submissions The volume also includes 7 papers presented at the AIMS Ph D workshop They were reviewed and selected from 14 submissions The papers are organized in topical sections on traffic engineering and quality of service monitoring and modeling security management content distribution and multimedia autonomous management and monitoring mechanisms

Bayesian Missing Data Problems Ming T. Tan, Guo-Liang Tian, Kai Wang Ng, 2009-08-26 Bayesian Missing Data Problems EM Data Augmentation and Noniterative Computation presents solutions to missing data problems through explicit or noniterative sampling calculation of Bayesian posteriors The methods are based on the inverse Bayes formulae discovered by one of the author in 1995 Applying the Bayesian approach to important real wor

Modelling Under Risk and Uncertainty Etienne de Rocquigny, 2012-04-30 Modelling has permeated virtually all areas of industrial environmental economic bio medical or civil engineering yet the use of models for decision making raises a number of issues to which this book is dedicated How uncertain is my model Is it truly valuable to support decision making What kind of decision can be truly supported and how can I handle residual uncertainty How much refined should the mathematical description be given the true data limitations Could the uncertainty be reduced through more data increased modeling investment or computational budget Should it be reduced now or later How robust is the analysis or the computational methods involved Should could those methods be more robust Does it make sense to handle uncertainty risk lack of knowledge variability or errors altogether How reasonable is the choice of probabilistic modeling for rare events How rare are the events to be considered How far does it make sense to handle extreme events and elaborate confidence figures Can I take advantage of expert phenomenological knowledge to

tighten the probabilistic figures Are there connex domains that could provide models or inspiration for my problem Written by a leader at the crossroads of industry academia and engineering and based on decades of multi disciplinary field experience *Modelling Under Risk and Uncertainty* gives a self consistent introduction to the methods involved by any type of modeling development acknowledging the inevitable uncertainty and associated risks It goes beyond the black box view that some analysts modelers risk experts or statisticians develop on the underlying phenomenology of the environmental or industrial processes without valuing enough their physical properties and inner modelling potential nor challenging the practical plausibility of mathematical hypotheses conversely it is also to attract environmental or engineering modellers to better handle model confidence issues through finer statistical and risk analysis material taking advantage of advanced scientific computing to face new regulations departing from deterministic design or support robust decision making *Modelling Under Risk and Uncertainty* Addresses a concern of growing interest for large industries environmentalists or analysts robust modeling for decision making in complex systems Gives new insights into the peculiar mathematical and computational challenges generated by recent industrial safety or environmental control analysis for rare events Implements decision theory choices differentiating or aggregating the dimensions of risk aleatory and epistemic uncertainty through a consistent multi disciplinary set of statistical estimation physical modelling robust computation and risk analysis Provides an original review of the advanced inverse probabilistic approaches for model identification calibration or data assimilation key to digest fast growing multi physical data acquisition Illustrated with one favourite pedagogical example crossing natural risk engineering and economics developed throughout the book to facilitate the reading and understanding Supports Master PhD level course as well as advanced tutorials for professional training Analysts and researchers in numerical modeling applied statistics scientific computing reliability advanced engineering natural risk or environmental science will benefit from this book

Long-Memory Processes Jan Beran,Yuanhua Feng,Sucharita Ghosh,Rafal Kulik,2013-05-14 Long memory processes are known to play an important part in many areas of science and technology including physics geophysics hydrology telecommunications economics finance climatology and network engineering In the last 20 years enormous progress has been made in understanding the probabilistic foundations and statistical principles of such processes This book provides a timely and comprehensive review including a thorough discussion of mathematical and probabilistic foundations and statistical methods emphasizing their practical motivation and mathematical justification Proofs of the main theorems are provided and data examples illustrate practical aspects This book will be a valuable resource for researchers and graduate students in statistics mathematics econometrics and other quantitative areas as well as for practitioners and applied researchers who need to analyze data in which long memory power laws self similar scaling or fractal properties are relevant

Transactions on Engineering Technologies Sio-Iong Ao,Haeng Kon Kim,Oscar Castillo,Alan Hoi-Shou Chan,Hideki Katagiri,2018-02-09 This volume contains a selection of revised and extended research articles written by prominent

researchers participating in the 25th International MultiConference of Engineers and Computer Scientists IMECS 2017 which was held in Hong Kong 15 17 March 2017 Topics covered include electrical engineering communications systems engineering mathematics engineering physics and industrial applications With contributions carefully chosen to represent the most cutting edge research presented during the conference the book offers the state of art in engineering technologies and physical science and applications and also serves as an excellent reference work for researchers and graduate students working with on engineering technologies and physical science and applications

Sequential Analysis Alexander Tartakovsky,Igor Nikiforov,Michele Basseville,2014-08-27 Sequential Analysis Hypothesis Testing and Changepoint Detection systematically develops the theory of sequential hypothesis testing and quickest changepoint detection It also describes important applications in which theoretical results can be used efficiently The book reviews recent accomplishments in hypothesis testing and changepoint detecti

Probability Theory, Random Processes and Mathematical Statistics Y. Rozanov,2012-12-06 Probability Theory Theory of Random Processes and Mathematical Statistics are important areas of modern mathematics and its applications They develop rigorous models for a proper treatment for various random phenomena which we encounter in the real world They provide us with numerous tools for an analysis prediction and ultimately control of random phenomena Statistics itself helps with choice of a proper mathematical model e g by estimation of unknown parameters on the basis of statistical data collected by observations This volume is intended to be a concise textbook for a graduate level course with carefully selected topics representing the most important areas of modern Probability Random Processes and Statistics The first part Ch 1 3 can serve as a self contained elementary introduction to Probability Random Processes and Statistics It contains a number of relatively simple and typical examples of random phenomena which allow a natural introduction of general structures and methods Only knowledge of elements of real complex analysis linear algebra and ordinary differential equations is required here The second part Ch 4 6 provides a foundation of Stochastic Analysis gives information on basic models of random processes and tools to study them Here a familiarity with elements of functional analysis is necessary Our intention to make this course fast moving made it necessary to present important material in a form of examples

Geometric Sums: Bounds for Rare Events with Applications Vladimir V. Kalashnikov,2013-04-17 This book reviews problems associated with rare events arising in a wide range of circumstances treating such topics as how to evaluate the probability an insurance company will be bankrupted the lifetime of a redundant system and the waiting time in a queue Well grounded unique mathematical evaluation methods of basic probability characteristics concerned with rare events are presented which can be employed in real applications as the volume also contains relevant numerical and Monte Carlo methods The various examples tables figures and algorithms will also be appreciated Audience This work will be useful to graduate students researchers and specialists interested in applied probability simulation and operations research

Mathematical Methods of Statistics ,2007 *Random Fields and*

Stochastic Partial Differential Equations Y. Rozanov, 1998-03-31 This book considers some models described by means of partial differential equations and boundary conditions with chaotic stochastic disturbance In a framework of stochastic Partial Differential Equations an approach is suggested to generalize solutions of stochastic Boundary Problems The main topic concerns probabilistic aspects with applications to well known Random Fields models which are representative for the corresponding stochastic Sobolev spaces The term stochastic in general indicates involvement of appropriate random elements It assumes certain knowledge in general Analysis and Probability Hilbert space methods Schwartz distributions Fourier transform I A very general description of the main problems considered can be given as follows Suppose we are considering a random field in a region $T \subset \mathbb{R}^d$ which is associated with a chaotic stochastic source by means of the differential equation in T A typical chaotic source can be represented by an appropriate random field with independent values i.e. generalized random function $\varphi(T)$ with independent random variables $\varphi(f)$ for any test functions φ with disjoint supports The property of having independent values implies a certain roughness of the random field which can only be treated functionally as a very irregular Schwarz distribution With the lack of a proper development of non linear analyses for generalized functions let us limit ourselves to the 1 For related material see for example J L Lions E

Asymptotic Behaviour of Linearly Transformed Sums of Random Variables V.V. Buldygin, Serguei Solntsev, 2012-12-06 Limit theorems for random sequences may conventionally be divided into two large parts one of them dealing with convergence of distributions weak limit theorems and the other with almost sure convergence that is to say with asymptotic properties of almost all sample paths of the sequences involved strong limit theorems Although either of these directions is closely related to another one each of them has its own range of specific problems as well as the own methodology for solving the underlying problems This book is devoted to the second of the above mentioned lines which means that we study asymptotic behaviour of almost all sample paths of linearly transformed sums of independent random variables vectors and elements taking values in topological vector spaces In the classical works of P Levy A Ya Khintchine A N Kolmogorov P Hartman A Wintner W Feller Yu V Prokhorov and M Loeve the theory of almost sure asymptotic behaviour of increasing scalar normed sums of independent random variables was constructed This theory not only provides conditions of the almost sure convergence of series of independent random variables but also studies different versions of the strong law of large numbers and the law of the iterated logarithm One should point out that even in this traditional framework there are still problems which remain open while many definitive results have been obtained quite recently

Random Evolutions and Their Applications Anatoly Swishchuk, 2012-12-06 The main purpose of this handbook is to summarize and to put in order the ideas methods results and literature on the theory of random evolutions and their applications to the evolutionary stochastic systems in random media and also to present some new trends in the theory of random evolutions and their applications In physical language a random evolution RE is a model for a dynamical system whose state of evolution is subject to random variations Such systems arise

in all branches of science For example random Hamiltonian and Schrodinger equations with random potential in quantum mechanics Maxwell s equation with a random refractive index in electrodynamics transport equations associated with the trajectory of a particle whose speed and direction change at random etc There are the examples of a single abstract situation in which an evolving system changes its mode of evolution or law of motion because of random changes of the environment or in a medium So in mathematical language a RE is a solution of stochastic operator integral equations in a Banach space The operator coefficients of such equations depend on random parameters Of course in such generality our equation includes any homogeneous linear evolving system Particular examples of such equations were studied in physical applications many years ago A general mathematical theory of such equations has been developed since 1969 the Theory of Random Evolutions

Stochastic Processes: General Theory Malempati M. Rao, 2013-03-14 Stochastic Processes General Theory starts with the fundamental existence theorem of Kolmogorov together with several of its extensions to stochastic processes It treats the function theoretical aspects of processes and includes an extended account of martingales and their generalizations Various compositions of quasi or semi martingales and their integrals are given Here the Bochner boundedness principle plays a unifying role a unique feature of the book Applications to higher order stochastic differential equations and their special features are presented in detail Stochastic processes in a manifold and multiparameter stochastic analysis are also discussed Each of the seven chapters includes complements exercises and extensive references many avenues of research are suggested The book is a completely revised and enlarged version of the author s Stochastic Processes and Integration Noordhoff 1979 The new title reflects the content and generality of the extensive amount of new material Audience Suitable as a text reference for second year graduate classes and seminars A knowledge of real analysis including Lebesgue integration is a prerequisite

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