

Lecture Notes in Statistics

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K. Krickeberg, and B. Singer**

Steffen L. Lauritzen

Extremal Families and Systems of Sufficient Statistics



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Steffen L. Lauritzen



Extremal Families And Systems Of Sufficient Statistics:

Extremal Families and Systems of Sufficient Statistics Steffen L. Lauritzen, 1988-11-28 This book surveys results in the area sometimes denoted as partial exchangeability of de Finetti type theorems It is to be seen as an attempt to give sense to the general idea that there is a strong coupling between a statistical model and the statistical analysis So strong that there is a canonical mathematical construction leading from the analysis to the model Special sections are devoted to the study of sufficiency of triviality of tails of Markov chains studied e g by coupling methods Martin boundaries and projective limits of Markov kernels and Polish spaces In addition many examples of extreme point models are treated in detail This book is intended for researchers and graduate students in mathematical statistics and probability

Extremal Families and Systems of Sufficient Statistics Steffen L Lauritzen, 1988-11-28 Extremal Families and Systems of Sufficient Statistics Steffen L. Lauritzen, 2012-12-06 The point of view behind the present work is that the connection between a statistical model and a statistical analysis is a duality in a vague sense In usual textbooks on mathematical statistics it is often so that the statistical model is given in advance and then various inference principles are applied to deduce the statistical analysis to be performed It is however possible to reverse the above procedure given that one wants to perform a certain statistical analysis how can this be expressed in terms of a statistical model In that sense we think of the statistical analysis and the statistical model as two ways of expressing the same phenomenon rather than thinking of the model as representing an idealisation of truth and the statistical analysis as a method of revealing that truth to the scientist It is not the aim of the present work to solve the problem of giving the correct and final mathematical description of the quite complicated relation between model and analysis We have rather restricted ourselves to describe a particular aspect of this formulate it in mathematical terms and then tried to make a rigorous and consequent investigation of that mathematical structure

Mathematics Into the Twenty-first Century American Mathematical Society, 1992 In the summer of 1988 in Providence the AMS celebrated its centennial with a wide range of mathematical activities Among those was a symposium Mathematics into the Twenty first Century which brought together a number of the top research mathematicians who will likely have a significant impact on the mathematics of this century This book contains the lectures presented by 16 of the 18 individuals who spoke during the symposium Written by some of the major international figures in mathematical research this group of articles covers a panorama of the vital areas of mathematics at the turn of the 21st century and gives the general mathematical reader a broad perspective on some of the major trends in research

Algorithmic Learning in a Random World Vladimir Vovk, Alex Gammerman, Glenn Shafer, 2005-12-05 Algorithmic Learning in a Random World describes recent theoretical and experimental developments in building computable approximations to Kolmogorov's algorithmic notion of randomness Based on these approximations a new set of machine learning algorithms have been developed that can be used to make predictions and to estimate their confidence and credibility in high dimensional spaces under the usual assumption that the data are

independent and identically distributed assumption of randomness Another aim of this unique monograph is to outline some limits of predictions The approach based on algorithmic theory of randomness allows for the proof of impossibility of prediction in certain situations The book describes how several important machine learning problems such as density estimation in high dimensional spaces cannot be solved if the only assumption is randomness [A Road to Randomness in Physical Systems](#) Eduardo M.R.A. Engel, 2012-12-06 There are many ways of introducing the concept of probability in classical i.e. deterministic physics This work is concerned with one approach known as the method of arbitrary function It was put forward by Poincare in 1896 and developed by Hopf in the 1930 s The idea is the following There is always some uncertainty in our knowledge of both the initial conditions and the values of the physical constants that characterize the evolution of a physical system A probability density may be used to describe this uncertainty For many physical systems dependence on the initial density washes away with time In these cases the system's position eventually converges to the same random variable no matter what density is used to describe initial uncertainty Hopf's results for the method of arbitrary functions are derived and extended in a unified fashion in these lecture notes They include his work on dissipative systems subject to weak frictional forces Most prominent among the problems he considers is his carnival wheel example which is the first case where a probability distribution cannot be guessed from symmetry or other plausibility considerations but has to be derived combining the actual physics with the method of arbitrary functions Examples due to other authors such as Poincare's law of small planets Borel's billiards problem and Keller's coin tossing analysis are also studied using this framework Finally many new applications are presented **Exponential Families of Stochastic Processes** Uwe Küchler, Michael Sørensen, 2006-05-09 Exponential families of stochastic processes are parametric stochastic process models for which the likelihood function exists at all finite times and has an exponential representation where the dimension of the canonical statistic is finite and independent of time This definition not only covers many practically important stochastic process models it also gives rise to a rather rich theory This book aims at showing both aspects of exponential families of stochastic processes Exponential families of stochastic processes are tractable from an analytical as well as a probabilistic point of view Therefore and because the theory covers many important models they form a good starting point for an investigation of the statistics of stochastic processes and cast interesting light on basic inference problems for stochastic processes Exponential models play a central role in classical statistical theory for independent observations where it has often turned out to be informative and advantageous to view statistical problems from the general perspective of exponential families rather than studying individually specific exponential families of probability distributions The same is true of stochastic process models Thus several published results on the statistics of particular process models can be presented in a unified way within the framework of exponential families of stochastic processes **Theory of Statistics** Mark J. Schervish, 2012-12-06 The aim of this graduate textbook is to provide a comprehensive advanced course in the theory of statistics covering those topics in estimation testing

and large sample theory which a graduate student might typically need to learn as preparation for work on a Ph D An important strength of this book is that it provides a mathematically rigorous and even handed account of both Classical and Bayesian inference in order to give readers a broad perspective For example the uniformly most powerful approach to testing is contrasted with available decision theoretic approaches

Statistics, Probability, and Game Theory David Blackwell, Thomas Shelburne Ferguson, Lloyd S. Shapley, James B. MacQueen, 1996 Most of the 26 papers are research reports on probability statistics gambling game theory Markov decision processes set theory and logic But they also include reviews on comparing experiments games of timing merging opinions associated memory models and SPLIF s historical views of Carnap von Mises and the Berkeley Statistics Department and a brief history appreciation and bibliography of Berkeley professor Blackwell A sampling of titles turns up The Hamiltonian Cycle Problem and Singularly Perturbed Markov Decision Process A Pathwise Approach to Dynkin Games The Redistribution of Velocity Collision and Transformations Casino Winnings at Blackjack and Randomness and the Foundations of Probability No index Annotation copyrighted by Book News Inc Portland OR

Case Studies in Bayesian Statistics Constantine Gatsonis, James S. Hodges, Robert E. Kass, Robert E. McCulloch, Peter Rossi, Nozer D. Singpurwalla, 2012-12-06 Like the first two volumes this third volume of case studies presents detailed applications of Bayesian statistical analysis emphasizing the scientific context The papers were presented and discussed at a workshop at Carnegie Mellon University October 5 7 1995 In this volume which is dedicated to the memory of Morris H DeGroot econometric applications are highlighted There are six invited papers each with accompanying invited discussion and eight contributed papers which were selected following refereeing In addition we include prefatory recollections about Morrie DeGroot by James o Berger and Richard M Cyert INVITED PAPERS In Probing Public Opinion The State of Valencia Experience Jose Bernardo who was a scientific advisor to the President of the State of Valencia Spain summarizes procedures that were set up to probe public opinion and were used as an input to the government s decision making process At the outset a sample survey had to be designed The problem of finding an optimal Bayesian design based on logarithmic divergence between probability distributions involves minimization over 21483 points in the action space To solve it simulated annealing was used The author describes the objective of obtaining the probability that an individual classified in a certain group will prefer one of several possible alternatives and his approach using posterior distributions based on reference priors

Mutual Impact of Computing Power and Control Theory M. Kárny, K. Warwick, 2012-12-06 Recent rapid developments in computing power such as parallel processing and neural networks have stimulated new trends in control However a discrepancy exists between available computing power and exploitable algorithms obtained classically from control theory The aim of this book is to address the discrepancy from both the computational power and control theory viewpoints Areas such as identification adaptive control signal processing and neural networks therefore hold a prominent position in the text presented The form of the book is such that it should be useful for readers at various levels particularly

those at the research and or application stage The book has resulted from the IFAC Workshop on the Mutual Impact of Computing Power and Control Theory which was held at the Institute of Information Theory and Automation UTIA Prague in September 1992 Organisation of the event was provided jointly by the Department of Adaptive Systems UTIA Prague and the School of Engineering and Information Sciences University of Reading UK Selected papers from the Workshop have been chosen to give a good balance across the field whilst at the same time highlighting important areas for future research In this way the book represents edited Proceedings from the Workshop One point quickly apparent is the international nature of the presentations themselves which provide not only a technical appraisal of the field but also inject cultural aspects which are vitally important on the path ahead

Wavelets and Statistics Anestis Antoniadis, Georges Oppenheim, 2012-12-06 Despite its short history wavelet theory has found applications in a remarkable diversity of disciplines mathematics physics numerical analysis signal processing probability theory and statistics The abundance of intriguing and useful features enjoyed by wavelet and wavelet packed transforms has led to their application to a wide range of statistical and signal processing problems On November 16 18 1994 a conference on Wavelets and Statistics was held at Villard de Lans France organized by the Institute IMAG LMC Grenoble France The meeting was the 15th in the series of the Rencontres Franco Belges des Statisticiens and was attended by 74 mathematicians from 12 different countries Following tradition both theoretical statistical results and practical contributions of this active field of statistical research were presented The editors and the local organizers hope that this volume reflects the broad spectrum of the conference as it includes 21 articles contributed by specialists in various areas in this field The material compiled is fairly wide in scope and ranges from the development of new tools for non parametric curve estimation to applied problems such as detection of transients in signal processing and image segmentation The articles are arranged in alphabetical order by author rather than subject matter However to help the reader a subjective classification of the articles is provided at the end of the book Several articles of this volume are directly or indirectly concerned with several aspects of wavelet based function estimation and signal denoising

Differential-Geometrical Methods in Statistics Shun-ichi Amari, 2012-12-06 From the reviews In this Lecture Note volume the author describes his differential geometric approach to parametrical statistical problems summarizing the results he had published in a series of papers in the last five years The author provides a geometric framework for a special class of test and estimation procedures for curved exponential families The material and ideas presented in this volume are important and it is recommended to everybody interested in the connection between statistics and geometry *Metrika* 1 More than hundred references are given showing the growing interest in differential geometry with respect to statistics The book can only strongly be recommended to a geodesist since it offers many new insights into statistics on a familiar ground

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Group Invariance Applications in Statistics Morris L. Eaton, 1989 *Population Management for Survival and Recovery* Jonathan D. Ballou, Michael E. Gilpin, Thomas J. Foose, 1995 Places the converging

disciplines of wildlife management and captive management in the context of the developing field of population and habitat viability analysis The contributors explore the science of the demographic management of small populations both in zoos and in the wild *Saddlepoint Approximations* Jens Ledet Jensen, 1995 Although introduced more than 60 years ago it is only during the last 15 years that there has been a systematic development of saddlepoint approximations These approximations give a highly accurate expression for the tail of a distribution not only in the centre of the distribution but also for very small tail probabilities The price for this is a more cumbersome formula the evaluation of which sometimes requires the use of a small personal computer This book explains the ideas behind the saddlepoint approximations as well as giving a detailed mathematical description of the subject The emphasis is two fold One is on popularizing the formulae through many worked out and ready to use examples The second is on giving a comprehensive mathematical background for further research in the field Some of the major subjects treated are uniformity of the approximations tests in exponential families and compound sums with applications in insurance mathematics Modelling Longitudinal and Spatially Correlated Data Timothy G.

Gregoire, David R. Brillinger, Peter Diggle, Estelle Russek-Cohen, William G. Warren, Russell D. Wolfinger, 2012-12-06 Correlated data arise in numerous contexts across a wide spectrum of subject matter disciplines Modeling such data present special challenges and opportunities that have received increasing scrutiny by the statistical community in recent years In October 1996 a group of 210 statisticians and other scientists assembled on the small island of Nantucket U S A to present and discuss new developments relating to Modelling Longitudinal and Spatially Correlated Data Methods Applications and Future Directions Its purpose was to provide a cross disciplinary forum to explore the commonalities and meaningful differences in the source and treatment of such data This volume is a compilation of some of the important invited and volunteered presentations made during that conference The three days and evenings of oral and displayed presentations were arranged into six broad thematic areas The session themes the invited speakers and the topics they addressed were as follows Generalized Linear Models Peter McCullagh Residual Likelihood in Linear and Generalized Linear Models Longitudinal Data Analysis Nan Laird Using the General Linear Mixed Model to Analyze Unbalanced Repeated Measures and Longitudinal Data Spatio Temporal Processes David R Brillinger Statistical Analysis of the Tracks of Moving Particles Spatial Data Analysis Noel A Cressie Statistical Models for Lattice Data Modelling Messy Data Raymond J Carroll Some Results on Generalized Linear Mixed Models with Measurement Error in Covariates Future Directions Peter J

Applications of Computer Aided Time Series Modeling Masanao Aoki, Arthur M. Havenner, 2012-12-06 This book consists of three parts Part One is composed of two introductory chapters The first chapter provides an instrumental variable interpretation of the state space time series algorithm originally proposed by Aoki 1983 and gives an introductory account for incorporating exogenous signals in state space models The second chapter by Havenner gives practical guidance in applying this algorithm by one of the most experienced practitioners of the method Havenner begins by summarizing six reasons state

space methods are advantageous and then walks the reader through construction and evaluation of a state space model for four monthly macroeconomic series: industrial production, index of consumer price, six month commercial paper rate and money stock M1. To single out one of the several important insights in modeling that he shares with the reader, he discusses in Section 2.ii the effects of sampling errors and model misspecification on successful modeling efforts. He argues that model misspecification is an important amplifier of the effects of sampling error that may cause symplectic matrices to have complex unit roots, a theoretical impossibility. Correct model specifications increase efficiency of estimators and often eliminate this finite sample problem. This is an important insight into the positive realness of covariance matrices. Positivity has been emphasized by system engineers to the exclusion of other methods of reducing sampling error and alleviating what is simply a finite sample problem. The second and third parts collect papers that describe specific applications.

Latent Variable Modeling and Applications to Causality Maia Berkane, 2012-12-06 This volume gathers refereed papers presented at the 1994 UCLA conference on Latent Variable Modeling and Application to Causality. The meeting was organized by the UCLA Interdivisional Program in Statistics with the purpose of bringing together a group of people who have done recent advanced work in this field. The papers in this volume are representative of a wide variety of disciplines in which the use of latent variable models is rapidly growing. The volume is divided into two broad sections. The first section covers Path Models and Causal Reasoning and the papers are innovations from contributors in disciplines not traditionally associated with behavioural sciences: e.g. computer science with Judea Pearl and public health with James Robins. Also in this section are contributions by Rod McDonald and Michael Sobel who have a more traditional approach to causal inference generating from problems in behavioural sciences. The second section encompasses new approaches to questions of model selection with emphasis on factor analysis and time varying systems. Amemiya uses nonlinear factor analysis which has a higher order of complexity associated with the identifiability conditions. Muthén studies longitudinal hierarchical models with latent variables and treats the time vector as a variable rather than a level of hierarchy. De Leeuw extends exploratory factor analysis models by including time as a variable and allowing for discrete and ordinal latent variables. Arminger looks at autoregressive structures and Bock treats factor analysis models for categorical data.

Subjective Probability Models for Lifetimes Fabio Spizzichino, 2001-06-28 Bayesian methods in reliability cannot be fully utilized and understood without full comprehension of the essential differences that exist between frequentist probability and subjective probability. Switching from the frequentist to the subjective approach requires that some fundamental concepts be rethought and suitably redefined. Subjecti

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