STATISTICAL INFERENCE FOR BRANCHING PROCESSES

Peter Guttorp

Statistics Inference For Branching Processes

JEAN-PIERRE DION,Niels Keiding

Statistics Inference For Branching Processes:

Statistical Inference for Branching Processes Peter Guttorp,1991-08-19 An examination of the difficulties that statistical theory and in particular estimation theory can encounter within the area of dependent data This is achieved through the study of the theory of branching processes starting with the demographic question what is the probability that a family name becomes extinct Contains observations on the generation sizes of the Bienaym Galton Watson BGW process Various parameters are estimated and branching process theory is contrasted to a Bayesian approach Illustrations of branching process theory applications are shown for particular problems   STATISTICAL INFERENCE IN BRANCHING PROCESSES JEAN-PIERRE DION,Niels Keiding,1977   **Workshop on Branching Processes and Their Applications** Miguel González,Inés M. Puerto,Rodrigo Martínez,Manuel Molina,Manuel Mota,Alfonso Ramos,2010-03-02 One of the charms of mathematics is the contrast between its generality and its applicability to concrete even everyday problems Branching processes are typical in this Their niche of mathematics is the abstract pattern of reproduction sets of individuals changing size and composition through their members reproducing in other words what Plato might have called the pure idea behind demography population biology cell kinetics molecular replication or nuclear ssion had he known these scienti c elds Even in the performance of algorithms for sorting and classi cation there is an inkling of the same pattern In special cases general properties of the abstract ideal then interact with the physical or biological or whatever properties at hand But the population or bran ing pattern is strong it tends to dominate and here lies the reason for the extreme usefulness of branching processes in diverse applications Branching is a clean and beautiful mathematical pattern with an intellectually challenging intrinsic structure and it pervades the phenomena it underlies   Statistical Modeling for Biological Systems Anthony Almudevar,David Oakes,Jack Hall,2020-03-11 This book commemorates the scientific contributions of distinguished statistician Andrei Yakovlev It reflects upon Dr Yakovlev s many research interests including stochastic modeling and the analysis of micro array data and throughout the book it emphasizes applications of the theory in biology medicine and public health The contributions to this volume are divided into two parts Part A consists of original research articles which can be roughly grouped into four thematic areas i branching processes especially as models for cell kinetics ii multiple testing issues as they arise in the analysis of biologic data iii applications of mathematical models and of new inferential techniques in epidemiology and iv contributions to statistical methodology with an emphasis on the modeling and analysis of survival time data Part B consists of methodological research reported as a short communication ending with some personal reflections on research fields associated with Andrei and on his approach to science The Appendix contains an abbreviated vitae and a list of Andrei s publications complete as far as we know The contributions in this book are written by Dr Yakovlev s collaborators and notable statisticians including former presidents of the Institute of Mathematical Statistics and of the Statistics Section of the AAAS Dr Yakovlev s research appeared in four books and almost 200 scientific papers in mathematics statistics

biomathematics and biology journals Ultimately this book offers a tribute to Dr Yakovlev s work and recognizes the legacy of his contributions in the biostatistics community   Statistical Inferences for Stochasic Processes Ishwar V. Basawa,2014-06-28 Stats Inference Stochasic Process   **Nonlinear Dynamics of Electronic Systems** Valeri M. Mladenov,Plamen Ch. Ivanov,2014-06-30 This book constitutes the refereed proceedings of the 22nd International Conference on Nonlinear Dynamics of Electronic Systems NDES 2014 held in Albena Bulgaria in July 2014 The 47 revised full papers presented were carefully reviewed and selected from 65 submissions The papers are organized in topical sections on nonlinear oscillators circuits and electronic systems networks and nonlinear dynamics and nonlinear phenomena in biological and physiological systems   Statistical Inferences for Stochasic Processes Ishwar V. Basawa,B. L. S. Prakasa Rao,1980-01-28 Introductory examples of stochastic models Special models General theory Further approaches   *Branching Processes* Søren Asmussen,Heinrich Hering,1983 Branching processes form one of the classical fields of applied probability and are still an active area of research The field has by now grown so large and diverse that a complete and unified treat ment is hardly possible anymore let alone in one volume So our aim here has been to single out some of the more recent developments and to present them with sufficient background material to obtain a largely self contained treatment intended to supplement previous mo nographs rather than to overlap them The body of the text is divided into four parts each of its own flavor Part A is a short introduction stressing examples and applications In Part B we give a self contained and up to date pre sentation of the classical limit theory of simple branching processes viz the Gal ton Watson Bienayme G W process and i ts continuous time analogue Part C deals with the limit theory of Il arkov branching processes with a general set of types under conditions tailored to multigroup branching diffusions on bounded domains a setting which also covers the ordinary multitype case Whereas the point of view in Parts A and B is quite pedagogical the aim of Part C is to treat a large subfield to the highest degree of generality and completeness possible Thus the exposition there is at times quite technical   Mathematical Methods of Statistics ,1995   **Elements of Applied Stochastic Processes** U. Narayan Bhat,Gregory K. Miller,2002-09-06 The third edition of this volume improves on the last edition by condensing the material and organizing it into a more teachable format It provides more in depth coverage of Markov chains and simple Markov process and gives added emphasis to statistical inference in stochastic processes   *Statistical Inference from Stochastic Processes* Narahari Umanath Prabhu,1988 Comprises the proceedings of the AMS IMS SIAM Summer Research Conference on Statistical Inference from Stochastic Processes held at Cornell University in August 1987 This book provides students and researchers with a familiarity with the foundations of inference from stochastic processes and intends to provide a knowledge of the developments   Journal of the American Statistical Association ,2009   **Encyclopedia of Statistical Sciences , Update** Samuel Kotz,Campbell B. Read,David L. Banks,1997-05-02 Keeping pace with the latest developments in all branches of statistical science Encyclopedia of Statistical Sciences is the number one source of information on statistical

theory methods and applications for researchers and clinicians This new volume is the last of three updates designed to bring the Encyclopedia in line with new and emerging topics and important advances in statistical science made over the past decade Each self contained entry is written by a leader in the field and easily understood by readers with a modest statistical background In addition to the main selections which feature fascinating discussions of developments in various branches of the statistical sciences readers will find a series of shorter entries ranging in subject matter from the lives of pioneers in statistics to updates of earlier articles and reviews of statistical agencies and journals Up to date bibliographies thorough cross referencing and extensive indexing facilitate quick access to specific information and provide an indispensable platform for further study and research A cumulative index and listing of all the entries in the 13 volumes of the Encyclopedia together with the corresponding authors are included With the publication of this update installment the Encyclopedia of Statistical Sciences retains its position as the only cutting edge reference of choice for those working in statistics probability theory biostatistics quality control and economics and in applications of statistical methods in sociology engineering computer and communication science biomedicine psychology and many other areas **Branching Processes and Its Estimation Theory** Ganapathyiyer Sankaranarayanan,1989 **OSU Statistics Technical Report** Ohio State University. Department of Statistics,1997 **Outliers in Statistical Data** Vic Barnett,Toby Lewis,1994-05-09 Every essential area is thoroughly updated to reflect the latest state of knowledge All the topics are fully revised and extended and additional topics and new emphases are presented **Statistical Applications Using Fuzzy Sets** Kenneth G. Manton,Max A. Woodbury,H. Dennis Tolley,1994-04-27 In each case the results are compared to the alternative competing analytic procedures such as latent class analysis and are shown to fit the data better provide substantively more meaningful results and generate excellent predictions of external variables not used to form the basic dimensions of the model **Probability Metrics and the Stability of Stochastic Models** Svetlozar T. Rachev,1991-05-13 Concentrates on four specialized research directions as well as applications to different problems of probability theory These include description of the basic structure of p metrics analysis of the topologies in the space of probability measures generated by different types of p metrics characterization of the ideal metrics for the given problem and investigations of the main relationships between different types of p metrics The presentation here is given in a general form although specific cases are considered as they arise in the process of finding supplementary bounds or in applications to important special cases Journal of the Indian Statistical Association Indian Statistical Association,2003 **Current Index to Statistics, Applications, Methods and Theory** ,1996 The Current Index to Statistics CIS is a bibliographic index of publications in statistics probability and related fields

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