

# Lecture Notes in Statistics

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Douglas E. Critchlow

**Metric Methods for Analyzing  
Partially Ranked Data**



Springer-Verlag  
Berlin Heidelberg New York Tokyo

# Metric Methods For Analyzing Partially Ranked Data

**Michael A. Fligner, Joseph S. Verducci**



## **Metric Methods For Analyzing Partially Ranked Data:**

*Metric Methods for Analyzing Partially Ranked Data* Douglas E. Critchlow, 1985  
**Partially Ranked Data** Douglas E Critchlow, 1986-01-01  
**Metric Methods for Analyzing Partially Ranked Data** Douglas E. Critchlow, 2012-12-06 A full ranking of  $n$  items is simply an ordering of all these items of the form first choice second choice  $n$ th choice If two judges each rank the same  $n$  items statisticians have used various metrics to measure the closeness of the two rankings including Kendall's tau Spearman's rho Spearman's footrule Ulam's metric Hallin's distance and Cayley distance These metrics have been employed in many contexts in many applied statistical and scientific problems This monograph presents general methods for extending these metrics to partially ranked data Here partially ranked data refers for instance to the situation in which there are  $n$  distinct items but each judge specifies only his first through  $k$ th choices where  $k$   
**Analyzing and Modeling Rank Data** John I Marden, 2014-01-23 This book is the first single source volume to fully address this prevalent practice in both its analytical and modeling aspects The information discussed presents the use of data consisting of rankings in such diverse fields as psychology animal science educational testing sociology economics and biology This book systematically presents the  
Nonparametric Regression Analysis of Longitudinal Data Hans-Georg Müller, 2012-12-06 This monograph reviews some of the work that has been done for longitudinal data in the rapidly expanding field of nonparametric regression The aim is to give the reader an impression of the basic mathematical tools that have been applied and also to provide intuition about the methods and applications Applications to the analysis of longitudinal studies are emphasized to encourage the non specialist and applied statistician to try these methods out To facilitate this FORTRAN programs are provided which carry out some of the procedures described in the text The emphasis of most research work so far has been on the theoretical aspects of nonparametric regression It is my hope that these techniques will gain a firm place in the repertoire of applied statisticians who realize the large potential for convincing applications and the need to use these techniques concurrently with parametric regression This text evolved during a set of lectures given by the author at the Division of Statistics at the University of California Davis in Fall 1986 and is based on the author's Habilitationsschrift submitted to the University of Marburg in Spring 1985 as well as on published and unpublished work Completeness is not attempted neither in the text nor in the references The following persons have been particularly generous in sharing research or giving advice Th Gasser P Ihm Y P Mack V Mammi tzsche G G Roussas U Stadtmüller W Stute and R  
**Foodinformatics** Karina Martinez-Mayorga, José Luis Medina-Franco, 2014-11-21 The explosion in the generation of information parallels the explosion of computational resources The use of computers to collect store and manipulate chemical information is at the heart of chemoinformatics These methodologies whose main target thus far has been the pharmaceutical field are general and can be applied to other types of chemical data sets such as those containing food chemicals While the use of chemical information methodologies to address food related challenges is still in

its infancy interest is growing and will continue to do so as the methods prove useful particularly for providing practical solutions to food industry challenges Foodinformatics gives an overview of basic concepts applications tools and perspectives of the emerging field of foodinformatics The book is an important addition to the literature and will be of interest of food chemists nutritionists informaticians and scientists of related fields About the Editors Karina Martinez Mayorga Instituto de Quimica UNAM Mexico City Mexico and Torrey Pines Institute for Molecular Studies Port St Lucie FL USA Jos Luis Medina Franco Instituto de Quimica UNAM Mexico City Mexico and Torrey Pines Institute for Molecular Studies Port St Lucie FL USA

**Information Processing and Management of Uncertainty in Knowledge-Based Systems** Davide Ciucci, Inés Couso, Jesús Medina, Dominik Ślęzak, Davide Petturiti, Bernadette Bouchon-Meunier, Ronald R. Yager, 2022-07-04 This two volume set CCIS 1601 1602 constitutes the proceedings of the 19th International Conference on Information Processing and Management of Uncertainty in Knowledge Based Systems IPMU 2021 held in Milan Italy in July 2022 The 124 papers were carefully reviewed and selected from 188 submissions The papers are organized in topical sections as follows aggregation theory beyond the unit interval formal concept analysis and uncertainty fuzzy implication functions fuzzy mathematical analysis and its applications generalized sets and operators information fusion techniques based on aggregation functions pre aggregation functions and their generalizations interval uncertainty knowledge acquisition representation and reasoning logical structures of opposition and logical syllogisms mathematical fuzzy logics theoretical and applied aspects of imprecise probabilities data science and machine learning decision making modeling and applications e health fuzzy methods in data mining and knowledge discovery soft computing and artificial intelligence techniques in image processing soft methods in statistics and data analysis uncertainty heterogeneity reliability and explainability in AI weak and cautious supervised learning

**Smoothness Priors Analysis of Time Series** Genshiro Kitagawa, Will Gersch, 2012-12-06 Smoothness Priors Analysis of Time Series addresses some of the problems of modeling stationary and nonstationary time series primarily from a Bayesian stochastic regression smoothness priors state space point of view Prior distributions on model coefficients are parametrized by hyperparameters Maximizing the likelihood of a small number of hyperparameters permits the robust modeling of a time series with relatively complex structure and a very large number of implicitly inferred parameters The critical statistical ideas in smoothness priors are the likelihood of the Bayesian model and the use of likelihood as a measure of the goodness of fit of the model The emphasis is on a general state space approach in which the recursive conditional distributions for prediction filtering and smoothing are realized using a variety of nonstandard methods including numerical integration a Gaussian mixture distribution two filter smoothing formula and a Monte Carlo particle path tracing method in which the distributions are approximated by many realizations The methods are applicable for modeling time series with complex structures

Probability Models and Statistical Analyses for Ranking Data Michael A. Fligner, Joseph S. Verducci, 2012-12-06 In June of 1990 a conference was held on Probability Models and Statistical Analyses for Ranking Data

under the joint auspices of the American Mathematical Society the Institute for Mathematical Statistics and the Society of Industrial and Applied Mathematicians The conference took place at the University of Massachusetts Amherst and was attended by 36 participants including statisticians mathematicians psychologists and sociologists from the United States Canada Israel Italy and The Netherlands There were 18 presentations on a wide variety of topics involving ranking data This volume is a collection of 14 of these presentations as well as 5 miscellaneous papers that were contributed by conference participants We would like to thank Carole Kohanski summer program coordinator for the American Mathematical Society for her assistance in arranging the conference M Steigerwald for preparing the manuscripts for publication Martin Gilchrist at Springer Verlag for editorial advice and Persi Diaconis for contributing the Foreword Special thanks go to the anonymous referees for their careful readings and constructive comments Finally we thank the National Science Foundation for their sponsorship of the AMS IMS SIAM Joint Summer Programs Contents Preface vii Conference Participants xiii Foreword xvii 1 Ranking Models with Item Covariates 1 D E Critchlow and M A Fligner 1 1 Introduction 1 1 2 Basic Ranking Models and Their Parameters 2 1 3 Ranking Models with Covariates 8 1 4 Estimation 9 1 5 Example 11 1 6 Discussion 14 1 7 Appendix 15 1 8 References

*Athens Conference on Applied Probability and Time Series Analysis* P.M. Robinson, Murray Rosenblatt, 2012-12-06 The Athens Conference on Applied Probability and Time Series in 1995 brought together researchers from across the world The published papers appear in two volumes Volume II presents papers on time series analysis many of which were contributed to a meeting in March 1995 partly in honour of E J Hannan The initial paper by P M Robinson discusses Ted Hannan's researches and their influence on current work in time series analysis Other papers discuss methods for finite parameter Gaussian models time series with infinite variance or stable marginal distribution frequency domain methods long range dependent processes nonstationary processes and nonlinear time series The methods presented can be applied in a number of fields such as statistics applied mathematics engineering economics and ecology The papers include many of the topics of current interest in time series analysis and will be of interest to a wide range of researchers

**A Parametric Approach to Nonparametric Statistics** Mayer Alvo, Philip L. H. Yu, 2018-10-12 This book demonstrates that nonparametric statistics can be taught from a parametric point of view As a result one can exploit various parametric tools such as the use of the likelihood function penalized likelihood and score functions to not only derive well known tests but to also go beyond and make use of Bayesian methods to analyze ranking data The book bridges the gap between parametric and nonparametric statistics and presents the best practices of the former while enjoying the robustness properties of the latter This book can be used in a graduate course in nonparametrics with parts being accessible to senior undergraduates In addition the book will be of wide interest to statisticians and researchers in applied fields

Proceedings of COMPSTAT'2010 Yves Lechevallier, Gilbert Saporta, 2010-11-08 Proceedings of the 19th international symposium on computational statistics held in Paris August 22-27 2010 Together with 3 keynote talks there were 14 invited sessions and

more than 100 peer reviewed contributed communications      Learning from Data Doug Fisher, Hans-J. Lenz, 2012-12-06 Ten years ago Bill Gale of AT T Bell Laboratories was primary organizer of the first Workshop on Artificial Intelligence and Statistics In the early days of the Workshop series it seemed clear that researchers in AI and statistics had common interests though with different emphases goals and vocabularies In learning and model selection for example a historical goal of AI to build autonomous agents probably contributed to a focus on parameter free learning systems which relied little on an external analyst s assumptions about the data This seemed at odds with statistical strategy which stemmed from a view that model selection methods were tools to augment not replace the abilities of a human analyst Thus statisticians have traditionally spent considerably more time exploiting prior information of the environment to model data and exploratory data analysis methods tailored to their assumptions In statistics special emphasis is placed on model checking making extensive use of residual analysis because all models are wrong but some are better than others It is increasingly recognized that AI researchers and or AI programs can exploit the same kind of statistical strategies to good effect Often AI researchers and statisticians emphasized different aspects of what in retrospect we might now regard as the same overriding tasks

*Athens Conference on Applied Probability and Time Series Analysis* C.C. Heyde, Yu.V. Prohorov, Ronald Pyke, S.T. Rachev, 2012-12-06 The Athens Conference on Applied Probability and Time Series in 1995 brought together researchers from across the world The published papers appear in two volumes Volume I includes papers on applied probability in Honor of J M Gani The topics include probability and probabilistic methods in recursive algorithms and stochastic models Markov and other stochastic models such as Markov chains branching processes and semi Markov systems biomathematical and genetic models epidemiological models including S I R Susceptible Infective Removal household and AIDS epidemics financial models for option pricing and optimization problems random walks queues and their waiting times and spatial models for earthquakes and inference on spatial models      *Clustering And Classification* Phipps Arabie, Larry Hubert, Geert De Soete, 1996-01-29 At a moderately advanced level this book seeks to cover the areas of clustering and related methods of data analysis where major advances are being made Topics include hierarchical clustering variable selection and weighting additive trees and other network models relevance of neural network models to clustering the role of computational complexity in cluster analysis latent class approaches to cluster analysis theory and method with applications of a hierarchical classes model in psychology and psychopathology combinatorial data analysis clusterwise aggregation of relations review of the Japanese language results on clustering review of the Russian language results on clustering and multidimensional scaling practical advances and significance tests      Similarity Search Pavel Zezula, Giuseppe Amato, Vlastislav Dohnal, Michal Batko, 2006-06-07 The area of similarity searching is a very hot topic for both research and commercial applications Current data processing applications use data with considerably less structure and much less precise queries than traditional database systems Examples are multimedia data like images or videos that offer query by example

search product catalogs that provide users with preference based search scientific data records from observations or experimental analyses such as biochemical and medical data or XML documents that come from heterogeneous data sources on the Web or in intranets and thus does not exhibit a global schema Such data can neither be ordered in a canonical manner nor meaningfully searched by precise database queries that would return exact matches This novel situation is what has given rise to similarity searching also referred to as content based or similarity retrieval The most general approach to similarity search still allowing construction of index structures is modeled in metric space In this book Prof Zezula and his co authors provide the first monograph on this topic describing its theoretical background as well as the practical search tools of this innovative technology

*Advanced Computing in Industrial Mathematics* Krassimir Georgiev, Michail Todorov, Ivan Georgiev, 2018-09-27 This book gathers the peer reviewed proceedings of the 12th Annual Meeting of the Bulgarian Section of the Society for Industrial and Applied Mathematics BGSIAM 17 held in Sofia Bulgaria in December 2017 The general theme of BGSIAM 17 was industrial and applied mathematics with a particular focus on high performance computing numerical methods and algorithms analysis of partial differential equations and their applications mathematical biology control and uncertain systems stochastic models molecular dynamics neural networks genetic algorithms metaheuristics for optimization problems generalized nets and Big Data

*Advances in Neural Information Processing Systems 15* Suzanna Becker, Sebastian Thrun, Klaus Obermayer, 2003 Proceedings of the 2002 Neural Information Processing Systems Conference

**Nonparametric Statistics for Stochastic Processes** Denis Bosq, 2012-12-06 This book provides a mathematically rigorous treatment of the theory of nonparametric estimation and prediction for stochastic processes It discusses discrete time and continuous time and the emphasis is on the kernel methods Several new results are presented concerning optimal and superoptimal convergence rates How to implement the method is discussed in detail and several numerical results are presented This book will be of interest to specialists in mathematical statistics and to those who wish to apply these methods to practical problems involving time series analysis

*Constructing Scalar-Valued Objective Functions* Andranik Tangian, Josef Gruber, 2012-12-06 For several decades scholars have developed methods for solving optimization problems which emerge in economics econometrics operations research and other disciplines A considerable effort has been made to construct equations from which constraints can be derived but surprisingly little has been done to construct the other part of optimization models the scalar valued objective function the constrained maximum or minimum of which gives the optimal solution The given volume is intended to attract attention to the problem to present the major achievements in the field and to stimulate further research and teaching

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