



Piet Groeneboom
Jon A. Wellner

**Information Bounds and
Nonparametric Maximum
Likelihood Estimation**

Birkhäuser

Information Bounds Nonparametric Maxim

David Kirk



Information Bounds Nonparametric Maxim:

Information Bounds and Nonparametric Maximum Likelihood Estimation P. Groeneboom, J.A. Wellner, 2012-12-06 This book contains the lecture notes for a DMV course presented by the authors at Gunzburg Germany in September 1990 In the course we sketched the theory of information bounds for non parametric and semiparametric models and developed the theory of non parametric maximum likelihood estimation in several particular inverse problems interval censoring and deconvolution models Part I based on Jon Wellner s lectures gives a brief sketch of information lower bound theory Hajek s convolution theorem and extensions useful minimax bounds for parametric problems due to Ibragimov and Has minskii and a recent result characterizing differentiable functionals due to van der Vaart 1991 The differentiability theorem is illustrated with the examples of interval censoring and deconvolution which are pursued from the estimation perspective in part II The differentiability theorem gives a way of clearly distinguishing situations in which 1 2 the parameter of interest can be estimated at rate n and situations in which this is not the case However it says nothing about which rates to expect when the functional is not differentiable Even the casual reader will notice that several models are introduced but not pursued in any detail many problems remain Part II based on Piet Groeneboom s lectures focuses on non parametric maximum likelihood estimates NPMLE s for certain inverse problems The first chapter deals with the interval censoring problem □□□□□□□□, 1993 *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 Analysis of Machine Learning

Algorithms Tong Zhang, 2023-08-10 Introduction to the mathematical foundation for understanding and analyzing machine learning algorithms for AI students and researchers Robot Path Planning and Cooperation Anis Koubaa, Hachemi

Bennaceur, Imen Chaari, Sahar Trigui, Adel Ammar, Mohamed-Foued Sriti, Maram Alajlan, Omar Cheikhrouhou, Yasir Javed, 2018-04-05 This book presents extensive research on two main problems in robotics the path planning problem and the multi robot task allocation problem It is the first book to provide a comprehensive solution for using these techniques in large scale environments containing randomly scattered obstacles The research conducted resulted in tangible results both in theory and in practice For path planning new algorithms for large scale problems are devised and implemented and integrated into the Robot Operating System ROS The book also discusses the parallelism advantage of cloud computing techniques to solve the path planning problem and for multi robot task allocation it addresses the task assignment problem and the multiple traveling salesman problem for mobile robots applications In addition four new algorithms have been devised to investigate the cooperation issues with extensive simulations and comparative performance evaluation The algorithms are implemented and simulated in MATLAB and Webots **Peter Carr Gedenkschrift: Research Advances In**

Mathematical Finance Robert A Jarrow, Dilip B Madan, 2023-11-10 This Gedenkschrift for Peter Carr our dear friend and colleague who suddenly left us on March 1 2022 was organized to honor the life and lasting contributions of Peter to

Quantitative Finance A group of Peter's co authors and professional friends contributed chapters for this Gedenkschrift shortly after his passing The papers were received by September 15 2022 and some were presented at the Peter Carr Gedenkschrift Conference held at the Robert H Smith School of Business on November 11 2022 The contributed papers cover a wide range of topics corresponding to the vast range of Peter's interests Each paper represents new research results in recognition of Peter's scholarly activities The book serves as an important marker for the research knowledge existing at the time of the Gedenkschrift's publication on a number of topics within quantitative finance It reflects the diverse interactions between mathematics and finance and illustrates for those interested the breadth and depth of this development The book also presents a collection of tributes to Peter from family and friends including those made at his Memorial Service on March 19 2022 The result is hopefully a more complete testament to a personal and professional life well lived and unexpectedly cut short

Consistent nonparametric estimation of best linear classification rules/solving inconsistent systems of linear inequalities R. L. Greer, Stanford University. Department of Statistics, 1979 **Nonparametric Set Estimation Problems in Statistical Inference and Learning** Aarti Singh, 2008 **Travel Time Inversion** Philip B. Stark, 1986 **Foundations of Modern Statistics** Denis Belomestny, Cristina Butucea, Enno Mammen, Eric Moulines, Markus Reiß, Vladimir V. Ulyanov, 2023-07-16 This book contains contributions from the participants of the international conference Foundations of Modern Statistics which took place at Weierstrass Institute for Applied Analysis and Stochastics WIAS Berlin during November 6-8 2019 and at Higher School of Economics HSE University Moscow during November 30 2019 The events were organized in honor of Professor Vladimir Spokoiny on the occasion of his 60th birthday Vladimir Spokoiny has pioneered the field of adaptive statistical inference and contributed to a variety of its applications His more than 30 years of research in the field of mathematical statistics had a great influence on the development of the mathematical theory of statistics to its present state It has inspired many young researchers to start their research in this exciting field of mathematics The papers contained in this book reflect the broad field of interests of Vladimir Spokoiny optimal rates and non asymptotic bounds in nonparametrics Bayes approaches from a frequentist point of view optimization signal processing and statistical theory motivated by models in applied fields Materials prepared by famous scientists contain original scientific results which makes the publication valuable for researchers working in these fields The book concludes by a conversation of Vladimir Spokoiny with Markus Rei and Enno Mammen This interview gives some background on the life of Vladimir Spokoiny and his many scientific interests and motivations

ECAI 2020 G. De Giacomo, A. Catala, B. Dilkina, 2020-09-11 This book presents the proceedings of the 24th European Conference on Artificial Intelligence ECAI 2020 held in Santiago de Compostela Spain from 29 August to 8 September 2020 The conference was postponed from June and much of it conducted online due to the COVID 19 restrictions The conference is one of the principal occasions for researchers and practitioners of AI to meet and discuss the latest trends and challenges in all fields of AI and to demonstrate innovative

applications and uses of advanced AI technology The book also includes the proceedings of the 10th Conference on Prestigious Applications of Artificial Intelligence PAIS 2020 held at the same time A record number of more than 1 700 submissions was received for ECAI 2020 of which 1 443 were reviewed Of these 361 full papers and 36 highlight papers were accepted an acceptance rate of 25% for full papers and 45% for highlight papers The book is divided into three sections ECAI full papers ECAI highlight papers and PAIS papers The topics of these papers cover all aspects of AI including Agent based and Multi agent Systems Computational Intelligence Constraints and Satisfiability Games and Virtual Environments Heuristic Search Human Aspects in AI Information Retrieval and Filtering Knowledge Representation and Reasoning Machine Learning Multidisciplinary Topics and Applications Natural Language Processing Planning and Scheduling Robotics Safe Explainable and Trustworthy AI Semantic Technologies Uncertainty in AI and Vision The book will be of interest to all those whose work involves the use of AI technology

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 *The Annals of Mathematical Statistics*, 1954 This journal covering topics in mathematical statistics split into Annals of probability and Annals of statistics in 1973

NBS Special Publication, 1970 **International Congress of Mathematicians**, 1986

Mobile Positioning and Tracking Simone Frattasi, Francescantonio Della Rosa, 2017-07-21 The essential guide to state of the art mobile positioning and tracking techniques fully updated for new and emerging trends in the field Mobile Positioning and Tracking Second Edition explores state of the art mobile positioning solutions applied on top of current wireless communication networks Application areas covered include positioning data fusion and filtering tracking error mitigation both conventional and cooperative positioning technologies and systems and more The authors fill the gap between positioning and communication systems showing how features of wireless communications systems can be used for positioning purposes and how the retrieved location information can be used to enhance the performance of wireless networks Unlike other books on the subject Mobile Positioning and Tracking From Conventional to Cooperative Techniques 2nd Edition covers the entire positioning and tracking value chain starting from the measurement of positioning signals and offering valuable insights into the theoretical fundamentals behind these methods and how they relate to application areas such as location based services as well as related disciplines and professional concerns including global business considerations and the changing laws and standards governing wireless communication networks Fully updated and revised for the latest developments in the field this Second Edition Features new chapters on UWB positioning and tracking indoor positioning in WLAN and multi tag positioning in RFID Explores an array of positioning and tracking systems based on satellite and terrestrial systems technologies and methods Introduces advanced and novel topics such as localisation in heterogeneous and cooperative scenarios Provides a bridge between research and industry with potential implementations of the solutions presented Mobile positioning and tracking is subject to continuous innovations and improvements This

important working resource helps busy industry professionals and practitioners including software and service developers stay on top of emerging trends in the field It is also a valuable reference for advanced students in related disciplines studying positioning and mobile technologies

The Computing Dendrite Hermann Cuntz, Michiel W.H. Remme, Benjamin Torben-Nielsen, 2013-11-23 Neuronal dendritic trees are complex structures that endow the cell with powerful computing capabilities and allow for high neural interconnectivity Studying the function of dendritic structures has a long tradition in theoretical neuroscience starting with the pioneering work by Wilfrid Rall in the 1950s Recent advances in experimental techniques allow us to study dendrites with a new perspective and in greater detail The goal of this volume is to provide a r sum of the state of the art in experimental computational and mathematical investigations into the functions of dendrites in a variety of neural systems The book first looks at morphological properties of dendrites and summarizes the approaches to measure dendrite morphology quantitatively and to actually generate synthetic dendrite morphologies in computer models This morphological characterization ranges from the study of fractal principles to describe dendrite topologies to the consequences of optimization principles for dendrite shape Individual approaches are collected to study the aspects of dendrite shape that relate directly to underlying circuit constraints and computation The second main theme focuses on how dendrites contribute to the computations that neurons perform What role do dendritic morphology and the distributions of synapses and membrane properties over the dendritic tree have in determining the output of a neuron in response to its input A wide range of studies is brought together with topics ranging from general to system specific phenomena some having a strong experimental component and others being fully theoretical The studies come from many different neural systems and animal species ranging from invertebrates to mammals With this broad focus an overview is given of the diversity of mechanisms that dendrites can employ to shape neural computations

Scientific and Technical Aerospace Reports ,1986-04 *Deutsche Nationalbibliographie und Bibliographie der im Ausland erschienenen deutschsprachigen Veröffentlichungen* ,2002

Medical Image Computing and Computer-Assisted Intervention - MICCAI 2001 [Wiro J. Niessen, 2001-10-02 This book constitutes the refereed proceedings of the 4th International Conference on Medical Image Computing and Computer Assisted Intervention MICCAI 2001 held in Utrecht The Netherlands in October 2001 The 122 revised papers and 136 posters presented were carefully reviewed and selected from a total of 338 submissions The book offers topical sections on image guided surgery shape analysis segmentation computer aided diagnosis registration simulation planning and modeling visualization quantitative image analysis medical robotics and devices visualization and augmented reality and time series analysis

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