Robustness in Statistical Pattern Recognition

by

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Dit-Yan Yeung

Robustness In Statistical Pattern Recognition:

Robustness in Statistical Pattern Recognition Y. Kharin,2012-12-22 This book is concerned with important problems of robust stable statistical pat tern recognition when hypothetical model assumptions about experimental data are violated disturbed Pattern recognition theory is the field of applied mathematics in which prin ciples and methods are constructed for classification and identification of objects phenomena processes situations and signals i e of objects that can be specified by a finite set of features or properties characterizing the objects Mathematical Encyclopedia 1984 Two stages in development of the mathematical theory of pattern recognition may be observed At the first stage until the middle of the 1970s pattern recogni tion theory was replenished mainly from adjacent mathematical disciplines mathe matical statistics functional analysis discrete mathematics and information theory This development stage is characterized by successful solution of pattern recognition problems of different physical nature but of the simplest form in the sense of used mathematical models One of the main approaches to solve pattern recognition problems is the statisti cal approach which uses stochastic models of feature variables Under the statistical approach the first stage of pattern recognition theory development is characterized by the assumption that the probability data model is known exactly or it is esti mated from a representative sample of large size with negligible estimation errors Das Gupta 1973 1977 Rey 1978 Vasiljev 1983 Robustness in Statistical Pattern Recognition Y. Kharin,1996-09-30 This book is concerned with important problems of robust stable statistical pat tern recognition when hypothetical model assumptions about experimental data are violated disturbed Pattern recognition theory is the field of applied mathematics in which prin ciples and methods are constructed for classification and identification of objects phenomena processes situations and signals i e of objects that can be specified by a finite set of features or properties characterizing the objects Mathematical Encyclopedia 1984 Two stages in development of the mathematical theory of pattern recognition may be observed At the first stage until the middle of the 1970s pattern recogni tion theory was replenished mainly from adjacent mathematical disciplines mathe matical statistics functional analysis discrete mathematics and information theory This development stage is characterized by successful solution of pattern recognition problems of different physical nature but of the simplest form in the sense of used mathematical models One of the main approaches to solve pattern recognition problems is the statisti cal approach which uses stochastic models of feature variables Under the statistical approach the first stage of pattern recognition theory development is characterized by the assumption that the probability data model is known exactly or it is esti mated from a representative sample of large size with negligible estimation errors Das Gupta 1973 1977 Rey 1978 Vasiljev 1983 *Discriminant Analysis and Statistical Pattern Recognition* Geoffrey J. McLachlan,2005-02-25 The Wiley Interscience Paperback Series consists of selected books that have been made more accessible to consumers in an effort to increase global appeal and general circulation With these new unabridged softcover volumes Wiley hopes to extend the lives of these works by making them available to future generations of

statisticians mathematicians and scientists For both applied and theoretical statisticians as well as investigators working in the many areas in which relevant use can be made of discriminant techniques this monograph provides a modern comprehensive and systematic account of discriminant analysis with the focus on the more recent advances in the field SciTech Book News a very useful source of information for any researcher working in discriminant analysis and pattern recognition Computational Statistics Discriminant Analysis and Statistical Pattern Recognition provides a systematic account of the subject While the focus is on practical considerations both theoretical and practical issues are explored Among the advances covered are regularized discriminant analysis and bootstrap based assessment of the performance of a sample based discriminant rule and extensions of discriminant analysis motivated by problems in statistical image analysis The accompanying bibliography contains over 1 200 references **Robustness in Statistical Forecasting** Yuriy Kharin,2013-09-04 This book offers solutions to such topical problems as developing mathematical models and descriptions of typical distortions in applied forecasting problems evaluating robustness for traditional forecasting procedures under distortionism and more **Statistical Pattern Recognition** Andrew R. Webb,Andrew Webb,1999 This book provides an introduction to statistical pattern recognition theory and techniques Most of the material presented in this book is concerned with discrimination and classification and has been drawn from a wide range of literature including that of engineering statistics computer science and the social sciences This book is an attempt to provide a concise volume containing descriptions of many of the most useful of today s pattern processing techniques including many of the recent advances in nonparametric approaches to discrimination developed in the statistics literature and elsewhere The techniques are illustrated with examples of real world applications studies Pointers are also provided to the diverse literature base where further details on applications comparative studies and theoretical developments may be obtained Page xv Robustness in Data Analysis Georgy L. Shevlyakov,Nikita O. Vilchevski,2011-12-07 The series is devoted to the publication of high level monographs and surveys which cover the whole spectrum of probability and statistics The books of the series are addressed to both experts and advanced students Structural, Syntactic, and Statistical Pattern Recognition Terry Caelli,Adnan Amin,Robert P.W. Duin,Mohamed Kamel,Dick de Ridder,2003-08-02 This volume contains all papers presented at SSPR 2002 and SPR 2002 hosted by the University of Windsor Windsor Ontario Canada August 6 9 2002 This was the third time these two workshops were held back to back SSPR was the ninth International Workshop on Structural and Syntactic Pattern Recognition and the SPR was the fourth International Workshop on Statis cal Techniques in Pattern Recognition These workshops have traditionally been held in conjunction with ICPR International Conference on Pattern Recog tion and are the major events for technical committees TC2 and TC1 resp tively of the International Association of Pattern Recognition IAPR The workshops were held in parallel and closely coordinated This was an attempt to resolve the dilemma of how to deal in the light of the progressive specialization of pattern recognition with the need for narrow focus workshops without further

fragmenting the eld and introducing yet another conference that would compete for the time and resources of potential participants A total of 116 papers were received from many countries with the submission and reviewingprocesses beingcarried out separately for each workshop A total of 45 papers were accepted for oral presentation and 35 for posters In addition four invited speakers presented informative talks and overviews of their research They were Tom Dietterich Oregon State University USA Sven Dickinson the University of Toronto Canada Edwin Hancock University of York UK Anil Jain Michigan State University USA SSPR 2002 and SPR 2002 were sponsored by the IAPR and the University of Windsor

Robustness in Language and Speech Technology Jean-Claude Junqua,Gertjan van Noord,2013-03-09 In this book we address robustness issues at the speech recognition and natural language parsing levels with a focus on feature extraction and noise robust recognition adaptive systems language modeling parsing and natural language understanding This book attempts to give a clear overview of the main technologies used in language and speech processing along with an extensive bibliography to enable topics of interest to be pursued further It also brings together speech and language technologies often considered separately Robustness in Language and Speech Technology serves as a valuable reference and although not intended as a formal university textbook contains some material that can be used for a course at the graduate or undergraduate level   **Random Graphs for Statistical Pattern Recognition** David J. Marchette,2005-02-11 A timely convergence of two widely used disciplines Random Graphs for Statistical Pattern Recognition is the first book to address the topic of random graphs as it applies to statistical pattern recognition Both topics are of vital interest to researchers in various mathematical and statistical fields and have never before been treated together in one book The use of data random graphs in pattern recognition in clustering and classification is discussed and the applications for both disciplines are enhanced with new tools for the statistical pattern recognition community New and interesting applications for random graph users are also introduced This important addition to statistical literature features Information that previously has been available only through scattered journal articles Practical tools and techniques for a wide range of real world applications New perspectives on the relationship between pattern recognition and computational geometry Numerous experimental problems to encourage practical applications With its comprehensive coverage of two timely fields enhanced with many references and real world examples Random Graphs for Statistical Pattern Recognition is a valuable resource for industry professionals and students alike   *Probability Theory and Mathematical Statistics* B. Grigelionis,J. Kubilius,V. Paulauskas,H. Pragarauskas,R. Rudzkis,V. Statulevičius,2020-05-05 No detailed description available for Probability Theory and Mathematical Statistics

Pattern Recognition Joachim Denzler,Gunther Notni,Herbert Süße,2009-09-02 This book constitutes the refereed proceedings of the 31st Symposium of the German Association for Pattern Recognition DAGM 2009 held in Jena Germany in September 2009 The 56 revised full papers were carefully reviewed and selected from numerous submissions The papers are organized in topical sections on motion and tracking pedestrian recognition and automotive applications features single view

and 3D reconstruction learning and classification pattern recognition and estimation stereo and multi view reconstruction image analysis and applications and segmentation   Pattern Recognition Gunther Notni,2009-09-03 This book constitutes the refereed proceedings of the 31st Symposium of the German Association for Pattern Recognition DAGM 2009 held in Jena Germany in September 2009 The 56 revised full papers were carefully reviewed and selected from numerous submissions The papers are organized in topical sections on motion and tracking pedestrian recognition and automotive applications features single view and 3D reconstruction learning and classification pattern recognition and estimation stereo and multi view reconstruction image analysis and applications and segmentation   Robust Correlation Georgy L. Shevlyakov,Hannu Oja,2016-09-08 This bookpresents material on both the analysis of the classical concepts of correlation and on the development of their robust versions as well as discussing the related concepts of correlation matrices partial correlation canonical correlation rank correlations with the corresponding robust and non robust estimation procedures Every chapter contains a set of examples with simulated and real life data Key features Makes modern and robust correlation methods readily available and understandable to practitioners specialists and consultants working in various fields Focuses on implementation of methodology and application of robust correlation with R Introduces the main approaches in robust statistics such as Huber s minimax approach and Hampel s approach based on influence functions Explores various robust estimates of the correlation coefficient including the minimax variance and bias estimates as well as the most B and V robust estimates Contains applications of robust correlation methods to exploratory data analysis multivariate statistics statistics of time series and to real life data Includes an accompanying website featuring computer code and datasets Features exercises and examples throughout the text using both small and large data sets Theoretical and applied statisticians specialists in multivariate statistics robust statistics robust time series analysis data analysis and signal processing will benefit from this book Practitioners who use correlation based methods in their work as well as postgraduate students in statistics will also find this book useful   **Robustness and Complex Data Structures** Claudia Becker,Roland Fried,Sonja Kuhnt,2014-07-08 This Festschrift in honour of Ursula Gather s 60th birthday deals with modern topics in the field of robust statistical methods especially for time series and regression analysis and with statistical methods for complex data structures The individual contributions of leading experts provide a textbook style overview of the topic supplemented by current research results and questions The statistical theory and methods in this volume aim at the analysis of data which deviate from classical stringent model assumptions which contain outlying values and or have a complex structure Written for researchers as well as master and PhD students with a good knowledge of statistics   **Robust Methods in Biostatistics** Stephane Heritier,Eva Cantoni,Samuel Copt,Maria-Pia Victoria-Feser,2009-05-11 Robust statistics is an extension of classical statistics that specifically takes into account the concept that the underlying models used to describe data are only approximate Its basic philosophy is to produce statistical procedures which are stable when the data do not exactly match the postulated models as

it is the case for example with outliers Robust Methods in Biostatistics proposes robust alternatives to common methods used in statistics in general and in biostatistics in particular and illustrates their use on many biomedical datasets The methods introduced include robust estimation testing model selection model check and diagnostics They are developed for the following general classes of models Linear regression Generalized linear models Linear mixed models Marginal longitudinal data models Cox survival analysis model The methods are introduced both at a theoretical and applied level within the framework of each general class of models with a particular emphasis put on practical data analysis This book is of particular use for research students applied statisticians and practitioners in the health field interested in more stable statistical techniques An accompanying website provides R code for computing all of the methods described as well as for analyzing all the datasets used in the book **Proceedings of the 12th IAPR International Conference on Pattern Recognition: Conference B: Pattern recognition and neural networks** ,1994 **Pattern Recognition** Carl Edward Rasmussen,Heinrich H. Bülthoff,Bernhard Schölkopf,Martin A. Giese,2004-08-10 This book constitutes the refereed proceedings of the 26th Symposium of the German Association for Pattern Recognition DAGM 2004 held in Tbingen Germany in August September 2004 The 22 revised papers and 48 revised poster papers presented were carefully reviewed and selected from 146 submissions The papers are organized in topical sections on learning Bayesian approaches vision and faces vision and motion biologically motivated approaches segmentation object recognition and object recognition and synthesis *Structural, Syntactic, and Statistical Pattern Recognition* Dit-Yan Yeung,2006-08-03 This is the proceedings of the 11th International Workshop on Structural and Syntactic Pattern Recognition SSPR 2006 and the 6th International Workshop on Statistical Techniques in Pattern Recognition SPR 2006 held in Hong Kong August 2006 alongside the Conference on Pattern Recognition ICPR 2006 38 revised full papers and 61 revised poster papers are included together with 4 invited papers covering image analysis character recognition bayesian networks graph based methods and more **Invariants for Pattern Recognition and Classification** Marcos A. Rodrigues,2000 This book was conceived from the realization that there was a need to update recent work on invariants in a single volume providing a useful set of references and pointers to related work Since the publication in 1992 of J L Mundy and A Zisserman s Geometric Invariance in Computer Vision the subject has been evolving rapidly New approaches to invariants have been proposed and novel ways of defining and applying invariants to practical problem solving are testimony to the fundamental importance of the study of invariants to machine vision This book represents a snapshot of current research around the world A version of this collection of papers has appeared in the International Journal of Pattern Recognition and Artificial Intelligence December 1999 The papers in this book are extended versions of the original material published in the journal They are organized into two categories foundations and applications Foundation papers present new ways of defining or analyzing invariants and application papers present novel ways in which known invariant theory is extended and effectively applied to real world problems in interesting

and difficult contexts Each category contains roughly half of the papers but there is considerable overlap All papers carry an element of novelty and generalization that will be useful to theoreticians and practitioners alike It is hoped that this volume will be not only useful but also inspirational to researchers in image processing pattern recognition and computer vision at large **Structural, Syntactic, and Statistical Pattern Recognition** Xiao Bai,Edwin R. Hancock,Tin Kam Ho,Richard C. Wilson,Battista Biggio,Antonio Robles-Kelly,2018-08-10 This book constitutes the proceedings of the Joint IAPR International Workshop on Structural Syntactic and Statistical Pattern Recognition S SSPR 2018 held in Beijing China in August 2018 The 49 papers presented in this volume were carefully reviewed and selected from 75 submissions They were organized in topical sections named classification and clustering deep learning and neurla networks dissimilarity representations and Gaussian processes semi and fully supervised learning methods spatio temporal pattern recognition and shape analysis structural matching multimedia analysis and understanding and graph theoretic methods

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