Introduction To Robust Estimation And Hypothesis Testing

Introduction to Robust Estimation and Hypothesis TestingRobust Estimation and Hypothesis TestingRobust Estimation and Hypothesis TestingRobust Estimation and TestingRobust Estimation and Failure DetectionRobust Estimation and RegressionContributions to the Theory of Robust EstimationRobustness in StatisticsMaximum Entropy EconometricsRobust Estimation and Moment Selection in Dynamic Fixed-effects Panel Data ModelsRobust Estimation with Discrete Explanatory VariablesRobust Estimation with Discrete Explanatory VariablesRobust Estimation and Model Order Selection for Signal ProcessingRobust Estimation and Failure DetectionRobust Estimation and Applications in RoboticsA procedure for robust estimation and diagnostics in regressionRobustness in StatisticsRobust Estimation and Inference in Panels with Interactive Fixed EffectsRobust Estimation and Testing of Location for Symmetric Stable DistributionsRobust Estimates of Location Rand R. Wilcox Moti Lal Tiku Moti Lal Tiku Robert G. Staudte Rami S. Mangoubi Hai-Li Hsiang Wang Frank R. Hampel Robert L. Launer Amos Golan Pavel □□□ek Pavel □□□ek Pavel Cizek Michael Muma Rami S Mangoubi Michael Bosse Daniel Pe□a Robert L. Launer Timothy B. Armstrong Ateq Ahmed M. Al-Ghamedi David F. Andrews Introduction to Robust Estimation and Hypothesis Testing Robust Estimation and Hypothesis Testing Robust Estimation and Hypothesis Testing Robust Estimation and Testing Robust Estimation and Failure Detection Robust Estimation and Regression Contributions to the Theory of Robust Estimation Robustness in Statistics Maximum Entropy Econometrics Robust Estimation and Moment Selection in Dynamic Fixed-effects Panel Data Models Robust Estimation with Discrete Explanatory Variables Robust Estimation with Discrete Explanatory Variables Robust Estimation and Model Order Selection for Signal Processing Robust Estimation and Failure Detection Robust Estimation and Applications in Robotics A procedure for robust estimation and diagnostics in regression Robustness in Statistics Robust Estimation and Inference in Panels with Interactive Fixed Effects Robust Estimation and Testing of Location for Symmetric Stable Distributions Robust Estimates of Location *Rand R. Wilcox Moti Lal Tiku Moti Lal Tiku Robert G. Staudte Rami S. Mangoubi Hai-Li Hsiang Wang Frank R. Hampel Robert L. Launer Amos Golan Pavel □□□ek Pavel □□□ek Pavel Cizek Michael Muma Rami S Mangoubi Michael Bosse Daniel Pe□a Robert L. Launer Timothy B. Armstrong Ateq Ahmed M. Al-Ghamedi David F. Andrews*

this book focuses on the practical aspects of modern and robust statistical methods the increased accuracy and power of modern methods versus conventional approaches to the analysis of variance anova and regression is remarkable through a combination of theoretical developments improved and more flexible statistical methods and the power of the computer it is now possible to address problems with standard methods that seemed insurmountable only a few years ago

in statistical theory and practice a certain distribution is usually assumed and then optimal solutions sought since deviations from an assumed distribution are very common one cannot feel comfortable with assuming a particular distribution and believing it to be exactly correct that brings the robustness issue in focus in this book we have given statistical procedures which are robust to plausible deviations from an assumed mode the method of modified maximum likelihood estimation is used in formulating these procedures the modified maximum likelihood estimators are explicit functions of sample observations and are easy to compute they are asymptotically fully efficient and are as efficient as the maximum likelihood estimators for small sample sizes the maximum likelihood estimators have computational problems and are therefore elusive a broad range of topics are covered in this book solutions are given which are easy to implement and are efficient the solutions are also robust to data anomalies outliers inliers mixtures and data contaminations numerous real life applications of the methodology are given

the series advances in industrial control aims to report and encourage technology transfer in control engineering the rapid development of control technology impacts all areas of the control discipline new theory new controllers actuators sensors new industrial processes computer methods new applications new philosophies new challenges much of this development work resides in industrial reports feasibility study papers and the reports of advanced collaborative projects the series offers an opportunity for researchers to present an extended exposition of such new work in all aspects of industrial control for wider and rapid dissemination this monograph brings together two of the most exciting areas of advanced signal processing and control the first involves the development of optimal estimators for uncertain signal and noise models the second is the subject of failure detection and isolation which has considerable potential in a range of applications the text provides a gradual build up of ideas moving from traditional wiener and kalman filtering to risk sensitive control and estimation problems

robustness in statistics contains the proceedings of a workshop on robustness in statistics held on april 11 12 1978 at the army research office in research triangle park north carolina the papers review the state of the art in statistical robustness and cover topics ranging from robust estimation to the robustness of residual displays and robust smoothing the application of robust regression to trajectory data reduction is also discussed comprised of 14 chapters this book begins with an introduction to robust estimation paying particular attention to iteration schemes and error structure of estimators sensitivity and influence curves as well as their connection with jackknife estimates are described the reader is then introduced to a simple analog of trimmed means that can be used for studying residuals from a robust point of view a class of robust estimators called p estimators based on the location and scale invariant pitman estimators of location and robust estimation in the presence of outliers subsequent chapters deal with robust regression and its use to reduce trajectory data tests for censoring of extreme values especially when population distributions are incompletely defined and robust estimation for time series autoregressions this monograph should be of interest to mathematicians and statisticians

this monograph examines the problem of recovering and processing information when the underlying data are limited or partial and the corresponding models that form the basis for estimation and inference are ill posed or undermined

the least squares estimator is probably the most frequently used estimation method in regression analysis unfortunately it is also quite sensitive to data contamination and model misspecification although there are several robust estimators designed for parametric regression models that can be used in place of least squares these robust estimators cannot be easily applied to models containing binary and categorical explanatory variables therefore i design a robust estimator that can be used for any linear regression model no matter what kind of explanatory variables the model contains additionally i propose an adaptive procedure that maximizes the efficiency of the proposed estimator for a given data set while preserving its robustness

solving estimation problems is a fundamental component of numerous robotics applications prominent examples involve pose estimation point cloud alignment or object tracking algorithms for solving these estimation problems need to cope with new challenges due to an increased use of potentially poor low cost sensors and an ever growing deployment of robotic algorithms in consumer products which operate in potentially unknown environments these algorithms need to be capable of being robust against strong nonlinearities high uncertainty levels and numerous outliers however particularly in robotics the gaussian assumption is prevalent in solutions to multivariate parameter estimation problems without providing the desired level of robustness the goal of this tutorial is helping to address the aforementioned challenges by providing an introduction to robust estimation with a particular focus on robotics first this is achieved by giving a concise overview of the theory on m estimation m estimators share many of the convenient properties of least squares estimators and at the same time are much more robust to deviations from the gaussian model assumption second we present several example applications where m estimation is used to increase robustness against nonlinearities and outliers

an introduction to robust estimation the robustness of residual displays robust smoothing robust pitman like estimators robust estimation in the presence of outliers study of robustness by simulation particularly improvement by adjustment and combination robust techniques for the user application of robust regression to trajectory data reduction tests for censoring of extreme values especially when population distributions are incompletely defined robust estimation for time series autoregressions robust techniques in communication robustness in the strategy of scientific model building a density quantile function perspective on robust

we consider estimation and inference for a regression coefficient in panels with interactive fixed effects i e with a factor structure we show that previously developed estimators and confidence intervals cis might be heavily biased and size distorted when some of the factors are weak we propose estimators with improved rates of convergence and bias aware cis that are uniformly valid regardless of whether the factors are strong or not our approach applies the theory of minimax linear estimation to form a debiased estimate using a nuclear norm bound on the error of an initial estimate of the interactive fixed effects we use the obtained estimate to construct a bias aware ci taking into account the remaining bias due to weak factors in monte carlo experiments we find a substantial improvement over conventional approaches when factors are weak with little cost to estimation error when factors are strong

because estimation involves inferring information about an unknown quantity on the basis of available data the selection of an estimator is influenced by its ability to perform well under the conditions that are assumed to underlie the data since these conditions are never known exactly the estimators chosen must be robust i e they must be able to perform well under a variety of underlying conditions the theory of robust estimation is based on specified properties of specified estimators under specified conditions this book was written as the result of a study undertaken to establish the interaction of these three components over as large a range as possible originally published in 1972 the princeton legacy library uses the latest print on demand technology to again make available previously out of print books from the distinguished backlist of princeton university press these editions preserve the original texts of these important books while presenting them in durable paperback and hardcover editions the goal of the princeton legacy library is to vastly increase access to the rich scholarly heritage found in the thousands of books published by princeton university press since its founding in 1905

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