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Nonparametric and Semiparametric Models

An Introduction

June 9, 2004

**Wolfgang Härdle
Marlene Müller
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Nonparametric And Semiparametric Models

Jeffrey Racine,Liangjun Su,Aman Ullah

Nonparametric And Semiparametric Models:

Nonparametric and Semiparametric Models Wolfgang Härdle,2004-03-22 The statistical and mathematical principles of smoothing with a focus on applicable techniques are presented in this book It naturally splits into two parts The first part is intended for undergraduate students majoring in mathematics statistics econometrics or biometrics whereas the second part is intended to be used by master and PhD students or researchers The material is easy to accomplish since the e book character of the text gives a maximum of flexibility in learning and teaching intensity

Nonparametric and Semiparametric Methods in Econometrics and Statistics William A. Barnett,James Powell,George E. Tauchen,1991-06-28 This collection of papers delivered at the fifth international Symposium in Economic Theory and Econometrics in 1988 is devoted to recent advances in the estimation and testing of models that impose relatively weak

restrictions on the stochastic behavior of data Particularly in highly nonlinear models empirical results are very sensitive to the choice of the parametric form of the distribution of the observable variables and often nonparametric and semiparametric models are a preferable alternative Methods and applications that do not require strong parametric assumptions for their validity that are based on kernels and on series expansions and methods for independent and dependent observations are investigated and developed in these essays by renowned econometricians

Nonparametric and Semiparametric Models ,2012-08-29

Nonlinear Time Series Jiti Gao,2007-03-22 Useful in the theoretical and empirical analysis of nonlinear time series data semiparametric methods have received extensive attention in the economics and statistics communities over the past twenty years Recent studies show that semiparametric methods and models may be applied to solve dimensionality reduction problems arising from using fully

The Oxford Handbook of Applied Nonparametric and Semiparametric Econometrics and Statistics Jeffrey Racine,Liangjun Su,Aman Ullah,2014-04 This volume edited by Jeffrey Racine Liangjun Su and Aman Ullah contains the latest research on nonparametric and semiparametric econometrics and statistics Chapters by leading international econometricians and statisticians highlight the interface between econometrics and statistical methods for nonparametric and semiparametric procedures

Nonlinear Time Series Jiti Gao,2019-08-30 Useful in the theoretical and empirical analysis of nonlinear time series data semiparametric methods have received

extensive attention in the economics and statistics communities over the past twenty years Recent studies show that semiparametric methods and models may be applied to solve dimensionality reduction problems arising from using fully nonparametric models and methods Answering the call for an up to date overview of the latest developments in the field

Nonlinear Time Series Semiparametric and Nonparametric Methods focuses on various semiparametric methods in model estimation specification testing and selection of time series data After a brief introduction the book examines semiparametric estimation and specification methods and then applies these approaches to a class of nonlinear continuous time models with real world data It also assesses some newly proposed semiparametric estimation procedures for time series data with long

range dependence Even though the book only deals with climatological and financial data the estimation and specifications methods discussed can be applied to models with real world data in many disciplines This resource covers key methods in time series analysis and provides the necessary theoretical details The latest applied finance and financial econometrics results and applications presented in the book enable researchers and graduate students to keep abreast of developments in the field *Robust Nonparametric and Semiparametric Modeling* Bo Kai, 2009 In this dissertation several new statistical procedures in nonparametric and semiparametric models are proposed The concerns of the research are efficiency robustness and sparsity In Chapter 3 we propose complete composite quantile regression CQR procedures for estimating both the regression function and its derivatives in fully nonparametric regression models by using local smoothing techniques The CQR estimator was recently proposed by Zou and Yuan 2008 for estimating the regression coefficients in the classical linear regression model The asymptotic theory of the proposed estimator was established We show that compared with the classical local linear least squares estimator the new method can significantly improve the estimation efficiency of the local linear least squares estimator for commonly used non normal error distributions and at the same time the loss in efficiency is at most 8.01% in the worst case scenario In Chapter 4 we further consider semiparametric models The complexity of semiparametric models poses new challenges to parametric inferences and model selection that frequently arise from real applications We propose new robust inference procedures for the semiparametric varying coefficient partially linear model We first study a quantile regression estimate for the nonparametric varying coefficient functions and the parametric regression coefficients To improve efficiency we further develop a composite quantile regression procedure for both parametric and nonparametric components To achieve sparsity we develop a variable selection procedure for this model to select significant variables We study the sampling properties of the resulting quantile regression estimate and composite quantile regression estimate With proper choices of penalty functions and regularization parameters we show the proposed variable selection procedure possesses the oracle property in the terminology of Fan and Li 2001 In Chapter 5 we propose a novel estimation procedure for varying coefficient models based on local ranks By allowing the regression coefficients to change with certain covariates the class of varying coefficient models offers a flexible semiparametric approach to modeling nonlinearity and interactions between covariates Varying coefficient models are useful nonparametric regression models and have been well studied in the literature However the performance of existing procedures can be adversely influenced by outliers The new procedure provides a highly efficient and robust alternative to the local linear least squares method and can be conveniently implemented using existing R software packages We study the sample properties of the proposed procedure and establish the asymptotic normality of the resulting estimate We also derive the asymptotic relative efficiency of the proposed local rank estimate to the local linear estimate for the varying coefficient model The gain of the local rank regression estimate over the local linear regression estimate can be substantial We further develop nonparametric inferences

for the rank based method Monte Carlo simulations are conducted to access the finite sample performance of the proposed estimation procedure The simulation results are promising and consistent with our theoretical findings All the proposed procedures are supported by intensive finite sample simulation studies and most are illustrated with real data examples

Essays on Nonparametric and Semiparametric Models and Continuous Time Models Yun Wang,2012 *Nonparametric and Semiparametric Regression, Missing Data, and Related Algorithms* Mingyu Li,2010 This dissertation consists of two chapters Chapter 1 develops nonparametric and semiparametric regression methodologies which relate the group testing responses to the individual covariates information In this chapter we extend the parametric regression model of Xie 2001 for binary group testing data to the nonparametric and semiparametric models We fit nonparametric and semiparametric models and obtain estimators of the parameters by maximizing penalized likelihood function For implementation we apply EM algorithm considering the individual responses as complete data and the group testing responses as observed data Simulation studies are performed to illustrate the methodologies and to evaluate the finite sample performance of our methods In general group testing involves a large number of subjects hence the computational aspect is also discussed The results show that our estimation methods perform well for estimating both the individual probability of positive outcome and the prevalence rate in the population Chapter 2 studies a partially linear regression model with missing response variable and develops semiparametric efficient inference for the parametric component of the model The missingness considered here includes a broad range of missing patterns For the estimation method we use the concept of least favorable curve least favorable direction and the generalized profile likelihood in Severini and Wong 1992 Asymptotic distributions for the estimators of the parametric components are obtained It is shown that the estimators are asymptotically normally distributed under some conditions Furthermore we prove that the asymptotic covariance of the estimators achieves the semiparametric lower bound under the regularity conditions and additional conditions given in the appendix We also propose an algorithm which runs iteratively between fitting parametric components and fitting nonparametric components while holding the other fixed EM algorithms are used in estimating the parametric components by a semiparametric estimating equation and in estimating the nonparametric components by smoothing methods It is proved that the estimators from this iterative algorithm equal to the conditional expectations conditioned on observed data of the semiparametric efficient estimators from complete data The methodology is illustrated and evaluated by numerical examples *Three Essays on Nonparametric and Semiparametric Regression Models* Feng Yao,2004

Semiparametric and Nonparametric Methods in Econometrics Joel L. Horowitz,2010-07-10 Standard methods for estimating empirical models in economics and many other fields rely on strong assumptions about functional forms and the distributions of unobserved random variables Often it is assumed that functions of interest are linear or that unobserved random variables are normally distributed Such assumptions simplify estimation and statistical inference but are rarely justified by economic theory or other a priori considerations Inference

based on convenient but incorrect assumptions about functional forms and distributions can be highly misleading Nonparametric and semiparametric statistical methods provide a way to reduce the strength of the assumptions required for estimation and inference thereby reducing the opportunities for obtaining misleading results These methods are applicable to a wide variety of estimation problems in empirical economics and other fields and they are being used in applied research with increasing frequency The literature on nonparametric and semiparametric estimation is large and highly technical This book presents the main ideas underlying a variety of nonparametric and semiparametric methods It is accessible to graduate students and applied researchers who are familiar with econometric and statistical theory at the level taught in graduate level courses in leading universities The book emphasizes ideas instead of technical details and provides as intuitive an exposition as possible Empirical examples illustrate the methods that are presented This book updates and greatly expands the author s previous book on semiparametric methods in econometrics Nearly half of the material is new *Identification, Estimation and Efficiency of Nonparametric and Semiparametric Models in Microeconomics*, 2006

Identification, estimation and efficiency of nonparametric and semiparametric models in microeconomics David Tomás Jacho-Chávez, 2006

Nonparametric and Semiparametric Panel Data Models Juan Rodriguez-Poo, Alexandra Soberon, 2017 In this paper we provide an intensive review of the recent developments for semiparametric and fully nonparametric panel data models that are linearly separable in the innovation and the individual specific term We analyze these developments under two alternative model specifications fixed and random effects panel data models More precisely in the random effects setting we focus our attention in the analysis of some efficiency issues that have to do with the so called working independence condition This assumption is introduced when estimating the asymptotic variance covariance matrix of nonparametric estimators In the fixed effects setting to cope with the so called incidental parameters problem we consider two different estimation approaches profiling techniques and differencing methods Furthermore we are also interested in the endogeneity problem and how instrumental variables are used in this context In addition for practitioners we also show different ways of avoiding the so called curse of dimensionality problem in pure nonparametric models In this way semiparametric and additive models appear as a solution when the number of explanatory variables is large

Mixed Effects Models for Complex Data Lang Wu, 2009-11-11 Although standard mixed effects models are useful in a range of studies other approaches must often be used in correlation with them when studying complex or incomplete data Mixed Effects Models for Complex Data discusses commonly used mixed effects models and presents appropriate approaches to address dropouts missing data measurement errors

Semiparametric and Nonparametric Econometrics Aman Ullah, 2012-12-06 Over the last three decades much research in empirical and theoretical economics has been carried on under various assumptions For example a parametric functional form of the regression model the heteroskedasticity and the autocorrelation is always assumed usually linear Also the errors are assumed to follow certain parametric distributions

often normal A disadvantage of parametric econometrics based on these assumptions is that it may not be robust to the slight data inconsistency with the particular parametric specification Indeed any misspecification in the functional form may lead to erroneous conclusions In view of these problems recently there has been significant interest in the semiparametric nonparametric approaches to econometrics The semiparametric approach considers econometric models where one component has a parametric and the other which is unknown a nonparametric specification Manski 1984 and Horowitz and Neumann 1987 among others The purely non parametric approach on the other hand does not specify any component of the model a priori The main ingredient of this approach is the data based estimation of the unknown joint density due to Rosenblatt 1956 Since then especially in the last decade a vast amount of literature has appeared on nonparametric estimation in statistics journals However this literature is mostly highly technical and this may partly be the reason why very little is known about it in econometrics although see Bierens 1987 and Ullah 1988

Semiparametric Regression David Ruppert, M. P. Wand, R. J. Carroll, 2003-07-14 Semiparametric regression is concerned with the flexible incorporation of non linear functional relationships in regression analyses Any application area that benefits from regression analysis can also benefit from semiparametric regression Assuming only a basic familiarity with ordinary parametric regression this user friendly book explains the techniques and benefits of semiparametric regression in a concise and modular fashion The authors make liberal use of graphics and examples plus case studies taken from environmental financial and other applications They include practical advice on implementation and pointers to relevant software The 2003 book is suitable as a textbook for students with little background in regression as well as a reference book for statistically oriented scientists such as biostatisticians econometricians quantitative social scientists epidemiologists with a good working knowledge of regression and the desire to begin using more flexible semiparametric models Even experts on semiparametric regression should find something new here

Nonparametric and Semiparametric Functional Coefficient Instrumental Variables Models Huaiyu Xiong, University of North Carolina at Charlotte. College of Arts and Sciences, University of North Carolina at Charlotte. Department of Mathematics, 2004 In this work we study a class of nonparametric semiparametric structural models with endogeneity under a varying or partially varying coefficient representation for the regression function using instrumental variables Under this representation models are linear in the endogenous components with either unknown functional coefficients of the predetermined variables or constant coefficients To estimate the functional coefficients in a nonparametric functional coefficient model we propose a nonparametric two step estimator that uses local linear approximations in both steps The first step is to estimate a vector of reduced forms of regression models and the second step is a local linear regression using the estimated reduced forms as regressors To efficiently estimate the parameters in the partially varying coefficient structural model we first regard the constant coefficients as functional coefficients and then apply the above nonparametric two step estimation procedure The final estimators of those parameters are obtained by

taking the average of all the estimates at each sample point To estimate the functional coefficients we simply use the partial residuals by removing the constant coefficients part and then apply the above proposed nonparametric two step estimation procedure The large sample results including the consistency and asymptotic normality of all the proposed estimators of functional constant coefficients for both nonparametric and semiparametric models are derived and more importantly it is demonstrated that the estimators of the parameters are the square root of n consistent Finally both Monte Carlo simulation studies and an application are used to illustrate the performance of the finite sample properties *Semiparametric Theory and Missing Data* Anastasios Tsiatis, 2007-01-15 Missing data arise in almost all scientific disciplines In many cases the treatment of missing data in an analysis is carried out in a casual and ad hoc manner leading in many cases to invalid inference and erroneous conclusions In the past 20 years or so there has been a serious attempt to understand the underlying issues and difficulties that come about from missing data and their impact on subsequent analysis There has been a great deal written on the theory developed for analyzing missing data for finite dimensional parametric models This includes an extensive literature on likelihood based methods and multiple imputation More recently there has been increasing interest in semiparametric models which roughly speaking are models that include both a parametric and nonparametric component Such models are popular because estimators in such models are more robust than in traditional parametric models The theory of missing data applied to semiparametric models is scattered throughout the literature with no thorough comprehensive treatment of the subject This book combines much of what is known in regard to the theory of estimation for semiparametric models with missing data in an organized and comprehensive manner It starts with the study of semiparametric methods when there are no missing data The description of the theory of estimation for semiparametric models is at a level that is both rigorous and intuitive relying on geometric ideas to reinforce the intuition and understanding of the theory These methods are then applied to problems with missing censored and coarsened data with the goal of deriving estimators that are as robust and efficient as possible

The Routledge Handbook of Agricultural Economics

Gail Cramer, Krishna Paudel, Andrew Schmitz, 2018-07-17 This Handbook offers an up to date collection of research on agricultural economics Drawing together scholarship from experts at the top of their profession and from around the world this collection provides new insights into the area of agricultural economics The Routledge Handbook of Agricultural Economics explores a broad variety of topics including welfare economics econometrics agribusiness and consumer economics This wide range reflects the way in which agricultural economics encompasses a large sector of any economy and the chapters present both an introduction to the subjects as well as the methodology statistical background and operations research techniques needed to solve practical economic problems In addition food economics is given a special focus in the Handbook due to the recent emphasis on health and feeding the world population a quality diet Furthermore through examining these diverse topics the authors seek to provide some indication of the direction of research in these areas and

where future research endeavors may be productive. Acting as a comprehensive up to date and definitive work of reference this Handbook will be of use to researchers, faculty and graduate students looking to deepen their understanding of agricultural economics, agribusiness and applied economics and the interrelationship of those areas.

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