

Structural Equation Modeling

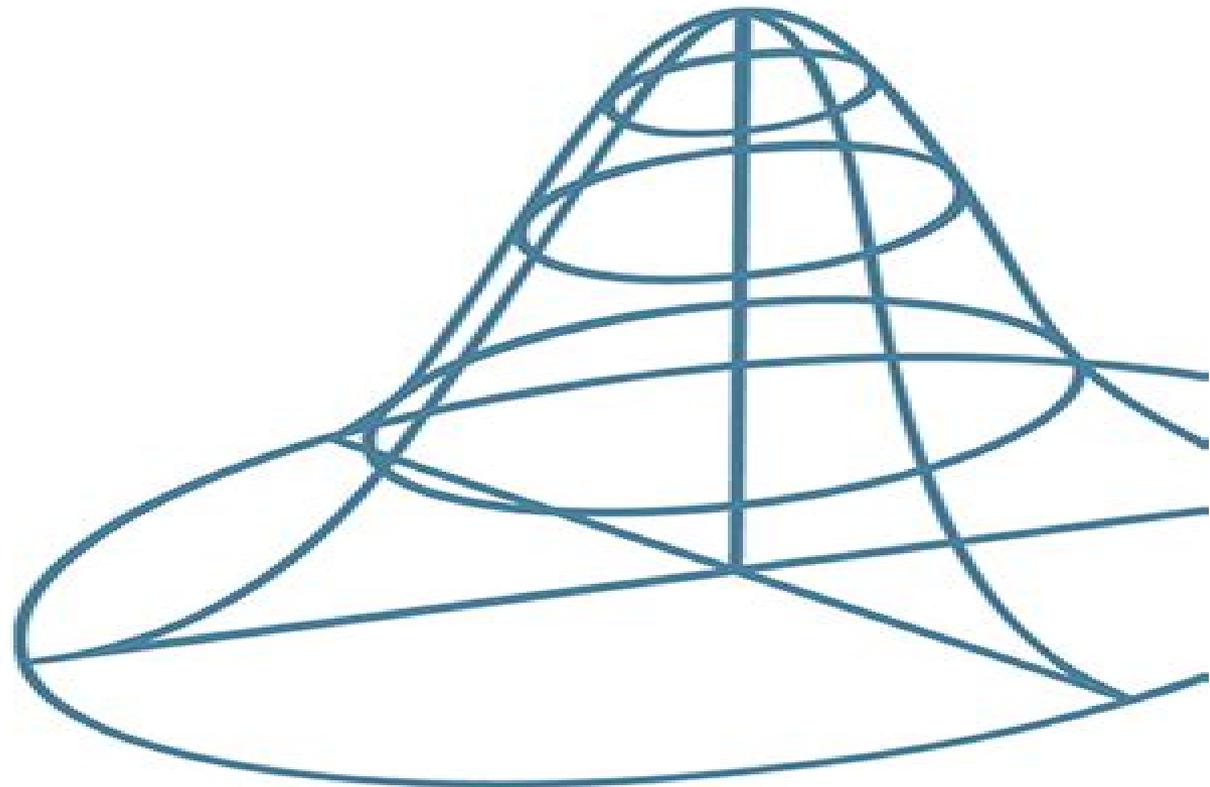
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Nonlinear Structural Equation Models

Robert Cudeck, Robert C. MacCallum



Nonlinear Structural Equation Models:

Nonlinear Structural Equation Models Casey L. Codd, 2011 Abstract Structural equation modeling is a popular statistical method in the social and behavioral sciences but it has largely been restricted to modeling linear relationships among latent variables This can be attributed to the fact that traditional estimation methods for SEM are based on linear relationships among the manifest and latent variables and are not appropriate for nonlinear models This thesis will illustrate how marginal maximum likelihood can be used to estimate a general nonlinear structural equation model and how this method can be implemented in SAS Proc NLMIXED Attention will also be given to the issue of model selection in nonlinear structural equation modeling An example using psychological data will be presented to illustrate the utility of this method

Assessing Local Influence for Nonlinear Structural Equation Models with Ignorable Missing Data Sik-Yum Lee, 2018 A method is proposed in this paper to assess the local influence of minor perturbation for a nonlinear structural equation model with missing data that are missing at random The main idea is to apply Zhu and Lee's 2001 approach to the conditional expectation of the complete data log likelihood function in the corresponding EM algorithm for deriving the conformai normal curvature Building blocks for achieving the diagnostic measures are computed via latent variables that are generated by the Gibbs sampler and Metropolis Hastings algorithm It is shown that the proposed methodology is feasible for a wide variety of perturbation schemes To illustrate the methodology results that are obtained from analysis of an artificial example and a real example are presented [Interaction and Nonlinear Effects in Structural Equation Modeling](#) Randall E.

Schumacker, 2017-07-05 This volume provides a comprehensive presentation of the various procedures currently available for testing interaction and nonlinear effects in structural equation modeling By focusing on various software applications the reader should quickly be able to incorporate one of the procedures into testing interaction or nonlinear effects in their own model Although every attempt is made to keep mathematical details to a minimum it is assumed that the reader has mastered the equivalent of a graduate level multivariate statistics course which includes adequate coverage of structural equation modeling This book will be of interest to researchers and practitioners in education and the social sciences *Exploring Fit*

for Nonlinear Structural Equation Models Phillip Isaac Pflieger, 2019 This thesis shows that an effective strategy for determining whether a nonlinear model is preferable to a linear one involves using the R squared to compare models that have been fit to the same data An R squared that is much larger for the nonlinear model than the linear model suggests that the linear model may be less desirable than the nonlinear model **Likelihood Based Procedures for General Nonlinear**

Structural Equation Analysis Yan Zhao, 2002 Valid Statistical inferences in nonlinear structural equation models are of great interest recently This dissertation aims at fitting a nonlinear structural equation model consisting of two parts a general nonlinear measurement model relating observed variables or indicators to unobserved concepts or latent variables and a nonlinear simultaneous structural model describing relationships among the latent variables For model identification

we assume an explicitly solved reduced structural model exists This dissertation is composed of two papers The first paper deals with the case where the latent variables in the reduced structural model are normally distributed We developed maximum likelihood estimation by a Monte Carlo EM algorithm The asymptotic covariance matrix of the estimator is computed by the inverse of the empirical observed information matrix Initial values of the parameters for general and special reduced structural models are presented For a Monte Carlo EM algorithm we developed a new procedure both to choose the Monte Carlo sample size for computing the expectation in the E step and to stop the algorithm Simulation studies for structural equation models with a variety of structural models are presented to assess the performance of our stopping rule and the estimators The second paper develops distribution free statistical procedures without specifying distribution forms of the latent variables We use the normal mixtures as a flexible distribution family A pseudo maximum likelihood estimation procedure is introduced by first obtaining the measurement model parameters by factor analysis then maximizing the pseudo likelihood the likelihood evaluated at the measurement model parameters estimates with respect to the structural equation model parameters The asymptotic covariance matrix of the measurement parameters estimates is computed by non parametric bootstrap which is combined with the empirical information matrix of all parameters for the full likelihood to produce an estimate of the asymptotic covariance of the reduced model parameters estimates Simulation studies are presented

Non-linear Structural Equation Models Fan Yang Jonsson,1997 *Nonlinear Structural Equation Modeling with the Theory of Planned Behavior* Jost Reinecke,2001 [Structural Equation Modeling](#) Sik-Yum Lee,2007-04-04 Winner of the 2008 Ziegel Prize for outstanding new book of the year Structural equation modeling SEM is a powerful multivariate method allowing the evaluation of a series of simultaneous hypotheses about the impacts of latent and manifest variables on other variables taking measurement errors into account As SEMs have grown in popularity in recent years new models and statistical methods have been developed for more accurate analysis of more complex data A Bayesian approach to SEMs allows the use of prior information resulting in improved parameter estimates latent variable estimates and statistics for model comparison as well as offering more reliable results for smaller samples Structural Equation Modeling introduces the Bayesian approach to SEMs including the selection of prior distributions and data augmentation and offers an overview of the subject s recent advances Demonstrates how to utilize powerful statistical computing tools including the Gibbs sampler the Metropolis Hasting algorithm bridge sampling and path sampling to obtain the Bayesian results Discusses the Bayes factor and Deviance Information Criterion DIC for model comparison Includes coverage of complex models including SEMs with ordered categorical variables and dichotomous variables nonlinear SEMs two level SEMs multisample SEMs mixtures of SEMs SEMs with missing data SEMs with variables from an exponential family of distributions and some of their combinations Illustrates the methodology through simulation studies and examples with real data from business management education psychology public health and sociology Demonstrates the application of the freely available software

WinBUGS via a supplementary website featuring computer code and data sets Structural Equation Modeling A Bayesian Approach is a multi disciplinary text ideal for researchers and students in many areas including statistics biostatistics business education medicine psychology public health and social science **Handbook of Latent Variable and Related Models** ,2011-08-11 This Handbook covers latent variable models which are a flexible class of models for modeling multivariate data to explore relationships among observed and latent variables Covers a wide class of important models Models and statistical methods described provide tools for analyzing a wide spectrum of complicated data Includes illustrative examples with real data sets from business education medicine public health and sociology Demonstrates the use of a wide variety of statistical computational and mathematical techniques The SAGE Handbook of Quantitative Methods in Psychology Roger E Millsap,Alberto Maydeu-Olivares,2009-08-05 I often wonder to myself whether the field needs another book handbook or encyclopedia on this topic In this case I think that the answer is truly yes The handbook is well focused on important issues in the field and the chapters are written by recognized authorities in their fields The book should appeal to anyone who wants an understanding of important topics that frequently go uncovered in graduate education in psychology David C Howell Professor Emeritus University of Vermont Quantitative psychology is arguably one of the oldest disciplines within the field of psychology and nearly all psychologists are exposed to quantitative psychology in some form While textbooks in statistics research methods and psychological measurement exist none offer a unified treatment of quantitative psychology The SAGE Handbook of Quantitative Methods in Psychology does just that Each chapter covers a methodological topic with equal attention paid to established theory and the challenges facing methodologists as they address new research questions using that particular methodology The reader will come away from each chapter with a greater understanding of the methodology being addressed as well as an understanding of the directions for future developments within that methodological area Drawing on a global scholarship the Handbook is divided into seven parts Part One Design and Inference addresses issues in the inference of causal relations from experimental and non experimental research along with the design of true experiments and quasi experiments and the problem of missing data due to various influences such as attrition or non compliance Part Two Measurement Theory begins with a chapter on classical test theory followed by the common factor analysis model as a model for psychological measurement The models for continuous latent variables in item response theory are covered next followed by a chapter on discrete latent variable models as represented in latent class analysis Part Three Scaling Methods covers metric and non metric scaling methods as developed in multidimensional scaling followed by consideration of the scaling of discrete measures as found in dual scaling and correspondence analysis Models for preference data such as those found in random utility theory are covered next Part Four Data Analysis includes chapters on regression models categorical data analysis multilevel or hierarchical models resampling methods robust data analysis meta analysis Bayesian data analysis and cluster analysis Part Five Structural Equation Models addresses topics in general

structural equation modeling nonlinear structural equation models mixture models and multilevel structural equation models Part Six Longitudinal Models covers the analysis of longitudinal data via mixed modeling time series analysis and event history analysis Part Seven Specialized Models covers specific topics including the analysis of neuro imaging data and functional data analysis

Framing Structural Equation Models as Bayesian Non-linear Multilevel Regression Models James Ohisei Uanhoro, 2021 This dissertation is a collection of three papers The first is a conceptual paper followed by two data analysis papers All three papers examine the connection between structural equation models and regression models and how one may better learn research and apply structural equation models when structural equation models are thought of as regression models Each paper contains unique contributions In the first paper I focus on conceptual issues related to estimating structural equation models SEMs as Bayesian multilevel regression models I review prevailing views on the equivalence of the two model classes SEM and multilevel regression and show how a Bayesian approach allows for the unity of both model classes Adopting a Bayesian approach introduces additional considerations for estimating SEMs which I review Additionally I lay out linear regression model specifications that are directly equivalent to commonplace SEMs Finally the paper ends with a discussion of open issues in SEMs that a Bayesian multilevel regression approach to SEMs more readily solves The goal of the second paper is to frame structural equation models SEMs as Bayesian multilevel regression models using the example of a unidimensional confirmation factor model Framing SEMs as Bayesian regression models provides an alternative approach to understanding SEMs that can improve model transparency and enhance innovation during modeling For demonstration I analyze six indicators of living standards data from 101 countries I show how the unidimensional confirmatory factor analysis CFA with congeneric indicators is a nonlinear multilevel regression model I fit this model using Bayesian estimation and conduct model diagnostics from the regression perspective The model diagnostics identify misspecification that standard SEM misfit statistics are unable to detect and I extend the congeneric model to accommodate the unique features of the data under study I also provide extensive guidance on prior specification which is relevant for estimating complex regression models such as these I end with discussion of the implications of a regression approach to modeling these data and data used in SEMs more broadly In the third paper I turn to bounded count indicators Such indicators are common in the study of rare behaviours I develop structural equation models for such indicators The models are developed as Bayesian non linear multilevel regression models I assume the indicators are beta binomial variables and jointly model the location and ICC of the indicators recommending latent variables for both parameters Furthermore I present an interval censoring extension to the developed models to be used when binned or coarsened versions of the indicators are available in place of the true counts I show that the models can recover population parameters using simulated data and show how to perform a complete analysis using data from the Irish longitudinal study on ageing Taken together the papers form the beginnings of a syllabus on the dissertation topic Ultimately the papers demonstrate that

to do better at structural equation modeling one needs to better understand regression modeling Essential Statistical Methods for Medical Statistics J. Philip Miller,2010-11-08 Essential Statistical Methods for Medical Statistics presents only key contributions which have been selected from the volume in the Handbook of Statistics Medical Statistics Volume 27 2009 While the use of statistics in these fields has a long and rich history the explosive growth of science in general and of clinical and epidemiological sciences in particular has led to the development of new methods and innovative adaptations of standard methods This volume is appropriately focused for individuals working in these fields Contributors are internationally renowned experts in their respective areas Contributors are internationally renowned experts in their respective areas Addresses emerging statistical challenges in epidemiological biomedical and pharmaceutical research Methods for assessing Biomarkers analysis of competing risks Clinical trials including sequential and group sequential crossover designs cluster randomized and adaptive designs Structural equations modelling and longitudinal data analysis **Psychometrics** C.R. Rao,Sandip Sinharay,2007 This volume representing a compilation of authoritative reviews on a multitude of uses of statistics in epidemiology and medical statistics written by internationally renowned experts is addressed to statisticians working in biomedical and epidemiological fields who use statistical and quantitative methods in their work While the use of statistics in these fields has a long and rich history explosive growth of science in general and clinical and epidemiological sciences in particular have gone through a sea of change spawning the development of new methods and innovative adaptations of standard methods Since the literature is highly scattered the Editors have undertaken this humble exercise to document a representative collection of topics of broad interest to diverse users The volume spans a cross section of standard topics oriented toward users in the current evolving field as well as special topics in much need which have more recent origins This volume was prepared especially keeping the applied statisticians in mind emphasizing applications oriented methods and techniques including references to appropriate software when relevant The contributors are internationally renowned experts in their respective areas This volume addresses emerging statistical challenges in epidemiological biomedical and pharmaceutical research It features methods for assessing Biomarkers analysis of competing risks clinical trials including sequential and group sequential crossover designs cluster randomized and adaptive designs and structural equations modelling and longitudinal data analysis Bayesian Analysis for Finite Mixture in Nonrecursive Nonlinear Structural Equation Models Yong Li,2009 This paper considers finite mixtures of structural equation models with nonlinear effects of exogenous latent variables and nonrecursive relations among endogenous latent variables A Bayesian approach is developed to analyze this kind of models In order to cope with the label switching problem the permutation sampler is used to choose an appropriate identification constraint Furthermore a hybrid Markov chain Monte Carlo method that combines the Gibbs sampler Metropolis Hastings algorithm an Langevin Hastings algorithm is implemented to produce the Bayesian outputs At last the proposed approach is illustrated by a simulation study and a real example Factor Analysis at 100 Robert

Cudeck, Robert C. MacCallum, 2007-03-06 Factor analysis is one of the success stories of statistics in the social sciences The reason for its wide appeal is that it provides a way to investigate latent variables the fundamental traits and concepts in the study of individual differences Because of its importance a conference was held to mark the centennial of the publication of Charles Spearman s seminal 1904 article which introduced the major elements of this invaluable statistical tool This book evolved from that conference It provides a retrospective look at major issues and developments as well as a prospective view of future directions in factor analysis and related methods In so doing it demonstrates how and why factor analysis is considered to be one of the methodological pillars of behavioral research Featuring an outstanding collection of contributors this volume offers unique insights on factor analysis and its related methods Several chapters have a clear historical perspective while others present new ideas along with historical summaries In addition the book reviews some of the extensions of factor analysis to such techniques as latent growth curve models models for categorical data and structural equation models Factor Analysis at 100 will appeal to graduate students and researchers in the behavioral social health and biological sciences who use this technique in their research A basic knowledge of factor analysis is required and a working knowledge of linear algebra is helpful

International Encyclopedia of Education, 2009-04-17 The field of education has experienced extraordinary technological societal and institutional change in recent years making it one of the most fascinating yet complex fields of study in social science Unequaled in its combination of authoritative scholarship and comprehensive coverage International Encyclopedia of Education Third Edition succeeds two highly successful previous editions 1985 1994 in aiming to encapsulate research in this vibrant field for the twenty first century reader Under development for five years this work encompasses over 1 000 articles across 24 individual areas of coverage and is expected to become the dominant resource in the field Education is a multidisciplinary and international field drawing on a wide range of social sciences and humanities disciplines and this new edition comprehensively matches this diversity The diverse background and multidisciplinary subject coverage of the Editorial Board ensure a balanced and objective academic framework with 1 500 contributors representing over 100 countries capturing a complete portrait of this evolving field A totally new work revamped with a wholly new editorial board structure and brand new list of meta sections and articles Developed by an international panel of editors and authors drawn from senior academia Web enhanced with supplementary multimedia audio and video files hotlinked to relevant references and sources for further study Incorporates ca 1 350 articles with timely coverage of such topics as technology and learning demography and social change globalization and adult learning to name a few Offers two content delivery options print and online the latter of which provides anytime anywhere access for multiple users and superior search functionality via ScienceDirect as well as multimedia content including audio and video files

Structural Equation Modeling Robert Cudeck, K. G. Jöreskog, Dag Sörbom, Stephen Du Toit, 2001 **New Developments and Techniques in Structural Equation Modeling** George A. Marcoulides, Randall E.

Schumacker,2001-03 The revision of this edited volume introduces the latest issues and developments in SEM techniques The book provides an understanding and working knowledge of advanced SEM techniques with a minimum of mathematical derivations Includes cases examples

Bayesian Non-linear Methods for Survival Analysis and Structural Equation Models Zhenyu Wang (Statistician),2014 High dimensional data are more common nowadays because the collection of such data becomes larger and more complex due to the technology advance of the computer science biology etc The analysis of high dimensional data is different from traditional data analysis and variable selection for high dimensional data becomes very challenging Structural equation modeling SEM analyzes the relationship between manifest variables and latent variables The structural equation focuses on analyzing the relationship between latent variables New proposed methods of these topics are discussed in the dissertation In the first chapter we review the basic concept of survival analysis SEM and current method of variable selection in those two scenarios We also introduce the available software package for current methods and relevant data set In the second chapter we develop a Bayesian kernel machine model with incorporating existing information on pathways and gene networks in the analysis of DNA microarray data Each pathway is modeled nonparametrically using reproducing kernel Hilbert space The pathways and the genes are selected via assigning mixture priors on the pathway indicator variable and the gene indicator variable This approach helped us in flexible modeling of the pathway effects which can capture both linear and non linear effect Moreover the model can also pinpoint the important pathways and the important active genes within each pathway We have also developed an efficient Markov Chain Monte Carlo MCMC algorithm to fit our model We used simulations and a real data analysis van t Veer et al 2002 breast cancer microarray data to illustrate the proposed method In the third chapter we extend the idea of semiparametric structural equation model where the nonlinear functional relationships are approximated using basis expansions Guo et al 2012 Many basis expansion methods including cubic splines are known to induce correlations In this chapter we compare standard Lasso Fused Lasso and Elastic Net to account for correlations in both the covariate and basis expansions To illustrate the usefulness of the proposed methods a simulation study and a real data study have been performed The semiparametric structural equation models based on Bayesian fused Lasso and Bayesian elastic net outperform the Bayesian Lasso model In the fourth chapter we apply Bayesian Graph Laplacian Model developed by Liu et al 2014 and generalized the graph Laplacian allowing both positively and negatively correlated variable to analyze gene expression data from Michigan prostate cancer study Dhanasekaran et al 2001 We find out the underlie gene network and interaction related to prostate cancer and discuss the possible extensions for Bayesian Graph Laplacian Model including analyzing multiple pathways simultaneously and pathways selection right censored data as response variable and binomial or multinomial data as response variable

Linear Statistical Models and Related Methods John Fox,1984

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