Paul De Boeck
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Editors

Explanatory Item Response Models

A Generalized Linear and Nonlinear Approach

Springer

Explanatory Item Response Models A Generalized Linear And Nonlinear Approach

Siddappa N.Byrareddy

Explanatory Item Response Models A Generalized Linear And Nonlinear Approach:

Explanatory Item Response Models Paul de Boeck,2004-06-29 This edited volume gives a new and integrated introduction to item response models predominantly used in measurement applications in psychology education and other social science areas from the viewpoint of the statistical theory of generalized linear and nonlinear mixed models The new framework allows the domain of item response models to be co ordinated and broadened to emphasize their explanatory uses beyond their standard descriptive uses The basic explanatory principle is that item responses can be modeled as a function of predictors of various kinds The predictors can be a characteristics of items of persons and of combinations of persons and items b observed or latent of either items or persons and they can be c latent continuous or latent categorical In this way a broad range of models is generated including a wide range of extant item response models as well as some new ones Within this range models with explanatory predictors are given special attention in this book but we also discuss descriptive models Note that the term item responses does not just refer to the traditional test data but are broadly conceived as categorical data from a repeated observations design Hence data from studies with repeated observations experimental designs or with longitudinal designs may also be modelled The book starts with a four chapter section containing an introduction to the framework The remaining chapters describe models for ordered category data multilevel models models for differential item functioning multidimensional models models for local item dependency and mixture models It also includes a chapter on the statistical background and one on useful software In order to make the task easier for the reader a unified approach to notation and model description is followed throughout the chapters and a single data set is used in most examples to make it easier to see how the many models are related For all major examples computer commands from the SAS package are provided that can be used to estimate the results for each model In addition sample commands are provided for other major computer packages Paul De Boeck is Professor of Psychology at K U Leuven Belgium and Mark Wilson is Professor of Education at UC Berkeley USA They are also co editors along with Pamela Moss of a new journal entitled Measurement Interdisciplinary Research and Perspectives The chapter authors are members of a collaborative group of psychometricians and statisticians centered on K U Leuven and UC Berkeley **The Theory and Practice of Item Response Theory** R. J. de Ayala,2022-02-20 Noted for addressing both the hows and whys of item response theory IRT this text has been revised and updated with the latest techniques multilevel models mixed models and more and software packages Simple to more complex models are covered in consistently formatted chapters that build sequentially The book takes the reader from model development through the fit analysis and interpretation phases that would be performed in practice To facilitate understanding common data sets are used across chapters with the examples worked through for increasingly complex models Exemplary model applications include free BIGSTEPS NOHARM Facets R packages and commercial BILOG MG flexMIRT SAS WINMIRA SPSS SYSTAT software packages The companion website provides data files and online only

appendices New to This Edition Chapter on multilevel models New material on loglinear models mixed models the linear logistic trait model and fit statistics Many additional worked through examples Updated guidance on software now includes R SAS and flexMIRT   Cross-Cultural Analysis Eldad Davidov,Peter Schmidt,Jaak Billiet,2012-10-12 Intended to bridge the gap between the latest methodological developments and cross cultural research this interdisciplinary resource presents the latest strategies for analyzing cross cultural data Techniques are demonstrated through the use of applications that employ cross national data sets such as the latest European Social Survey With an emphasis on the generalized latent variable approach internationally prominent researchers from a variety of fields explain how the methods work how to apply them and how they relate to other methods presented in the book Syntax and graphical and verbal explanations of the techniques are included A website features some of the data sets and syntax commands used in the book Applications from the behavioral and social sciences that use real data sets demonstrate The use of samples from 17 countries to validate the resistance to change scale across these nations How to test the cross national invariance properties of social trust The interplay between social structure religiosity values and social attitudes A comparison of anti immigrant attitudes and patterns of religious orientations across European countries The book is divided into techniques for analyzing cross cultural data within the generalized latent variable approach multiple group confirmatory factor analysis and multiple group structural equation modeling multi level analysis latent class analysis and item response theory Since researchers from various disciplines often use different methodological approaches a consistent framework for describing and applying each method is used so as to cross methodological borders between disciplines Some chapters describe the basic strategy and how it relates to other techniques presented in the book others apply the techniques and address specific research questions and a few combine the two A table in the preface highlights for each chapter a description of the contents the statistical methods used the goal s of the analysis and the data set employed This book is intended for researchers practitioners and advanced students interested in cross cultural research Because the applications span a variety of disciplines the book will appeal to researchers and students in psychology political science sociology education marketing and economics geography criminology psychometrics epidemiology and public health as well as those interested in methodology It is also appropriate for an advanced methods course in cross cultural analysis   **Handbook of Item Response Theory** Wim J. van der Linden,2017-12-15 Drawing on the work of internationally acclaimed experts in the field Handbook of Item Response Theory Volume 3 Applications presents applications of item response theory to practical testing problems While item response theory may be known primarily for its advances in theoretical modeling of responses to test items equal progress has been made in its providing innovative solutions to daily testing problems This third volume in a three volume set highlights the major applications Specifically this volume covers applications to test item calibration item analysis model fit checking test score interpretation optimal test design adaptive testing standard setting and forensic analyses of response data It describes advances in testing in areas such

as large scale educational assessment psychological testing health measurement and measurement of change In addition it extensively reviews computer programs available to run any of the models and applications in Volume One and Three Features Includes contributions from internationally acclaimed experts with a history of advancing applications of item response theory Provides extensive cross referencing and common notation across all chapters in this three volume set Underscores the importance of treating each application in a statistically rigorous way Reviews major computer programs for item response theory analyses and applications Wim J van der Linden is a distinguished scientist and director of research and innovation at Pacific Metrics Corporation Dr van der Linden is also a professor emeritus of measurement and data analysis at the University of Twente His research interests include test theory adaptive testing optimal test assembly parameter linking test equating and response time modeling as well as decision theory and its applications to problems of educational decision making   <u>Item Response Theory for Creativity Measurement</u> Nils Myszkowski,2024-03-06 Item response theory IRT represents a key advance in measurement theory Yet it is largely absent from curricula textbooks and popular statistical software and often introduced through a subset of models This Element intended for creativity and innovation researchers researchers in training and anyone interested in how individual creativity might be measured aims to provide 1 an overview of classical test theory CTT and its shortcomings in creativity measurement situations e g fluency scores consensual assessment technique etc 2 an introduction to IRT and its core concepts using a broad view of IRT that notably sees CTT models as particular cases of IRT 3 a practical strategic approach to IRT modeling 4 example applications of this strategy from creativity research and the associated advantages and 5 ideas for future work that could advance how IRT could better benefit creativity research as well as connections with other popular frameworks   **Handbook of Quantitative Methods for Educational Research** Timothy Teo,2014-02-07 As part of their research activities researchers in all areas of education develop measuring instruments design and conduct experiments and surveys and analyze data resulting from these activities Educational research has a strong tradition of employing state of the art statistical and psychometric psychological measurement techniques Commonly referred to as quantitative methods these techniques cover a range of statistical tests and tools Quantitative research is essentially about collecting numerical data to explain a particular phenomenon of interest Over the years many methods and models have been developed to address the increasingly complex issues that educational researchers seek to address This handbook serves to act as a reference for educational researchers and practitioners who desire to acquire knowledge and skills in quantitative methods for data analysis or to obtain deeper insights from published works Written by experienced researchers and educators each chapter in this handbook covers a methodological topic with attention paid to the theory procedures and the challenges on the use of that particular methodology It is hoped that readers 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   **Quantitative Psychology**

Marie Wiberg,Steven Culpepper,Rianne Janssen,Jorge González,Dylan Molenaar,2019-05-17 This proceedings volume highlights the latest research and developments in psychometrics and statistics This book compiles and expands on selected and peer reviewed presentations given at the 83rd Annual International Meeting of the Psychometric Society IMPS organized by Columbia University and held in New York USA July 9th to 13th 2018 The IMPS is one of the largest international meetings on quantitative measurement in education psychology and the social sciences The last couple of years it has attracted more than 500 participants and more than 250 paper presentations from researchers around the world Leading experts in the world and promising young researchers have written the 38 chapters The chapters address a large variety of topics including but not limited to item response theory multistage adaptive testing and cognitive diagnostic models This volume is the 7th in a series of recent volumes to cover research presented at the IMPS **Assessment of Competencies in Educational Contexts** Eckhard Klieme,Detlev Leutner,Johannes Hartig,2008 Covers theoretical psychometric and practical issues related to the assessment of competencies in educational and vocational settings This book is suitable for researchers interested in theoretical and psychometric background of assessment and for readers interested in practical aspects of computer based assessment and evaluation 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 see 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 **Advances in Longitudinal Methods in the Social and Behavioral Sciences** Gregory R. Hancock,Jeffrey R. Harring,2012-11-01 The importance that practitioners are placing on longitudinal designs and analyses signals a critical shift toward methods that enable a better understanding of developmental processes thought to underlie many human attributes and behaviors A simple scan of one s own applied literature reveals evidence of this trend through the increasing number of articles adopting

longitudinal methods as their primary analytic tools Advances in Longitudinal Methods in the Social and Behavioral Sciences is a resource intended for advanced graduate students faculty and applied researchers interested in longitudinal data analysis especially in the social and behavioral sciences The chapters are written by established methodological researchers from diverse research domains such as psychology biostatistics educational statistics psychometrics and family sciences Each chapter exposes the reader to some of the latest methodological developments and perspectives in the analysis of longitudinal data and is written in a didactic tone that makes the content accessible to the broader research community This volume will be particularly appealing to researchers in domains including but not limited to human development clinical psychology educational psychology school psychology special education epidemiology family science kinesiology communication disorders and education policy and administration The book will also be attractive to members of several professional organizations such as the American Educational Research Association AERA the American Psychological Association APA the American Psychological Society APS the Society for Research on Adolescence SRA the Society of Research in Child Development SRCD Society for Research in Adult Development SRAD British Psychological Society BPS Canadian Psychological Association CPA and other related organizations   *Patient-Reported Outcomes* Joseph C. Cappelleri,Kelly H. Zou,Andrew G. Bushmakin,Jose Ma. J. Alvir,Demissie Alemayehu,Tara Symonds,2013-12-20 However exciting new developments are on the verge of changing the treatment of this debilitating disorder Two anabolic agents the parathyroid hormone PTH and the fluoride ion show tremendous promise as tools for building and retaining bone with no adverse side effects Anabolic Treatments for Osteoporosis is a comprehensive account of the latest studies that have been carried out on these two agents and a thorough assessment of their prospects as osteoporosis therapeutics This unique book combines basic science and up to date clinical data to present a complete picture of this breakthrough in the treatment of a globally significant health issue   *Applied Quantitative Analysis in Education and the Social Sciences* Yaacov Petscher,Christopher Schatschneider,Donald L. Compton,2013-03-05 To say that complex data analyses are ubiquitous in the education and social sciences might be an understatement Funding agencies and peer review journals alike require that researchers use the most appropriate models and methods for explaining phenomena Univariate and multivariate data structures often require the application of more rigorous methods than basic correlational or analysis of variance models Additionally though a vast set of resources may exist on how to run analysis difficulties may be encountered when explicit direction is not provided as to how one should run a model and interpret results The mission of this book is to expose the reader to advanced quantitative methods as it pertains to individual level analysis multilevel analysis item level analysis and covariance structure analysis Each chapter is self contained and follows a common format so that readers can run the analysis and correctly interpret the output for reporting   **Handbook of International Large-Scale Assessment** Leslie Rutkowski,Matthias von Davier,David Rutkowski,2013-11-12 Winner of the 2017 AERA Division D Significant Contribution to

Educational Measurement and Research Methodology Award Technological and statistical advances along with a strong interest in gathering more information about the state of our educational systems have made it possible to assess more students in more countries more often and in more subject domains The Handbook of International Large Scale Assessment Background Technical Issues and Methods of Data Analysis brings together recognized scholars in the field of ILSA behavioral statistics and policy to develop a detailed guide that goes beyond database user manuals After highlighting the importance of ILSA data to policy and research the book reviews methodological aspects and features of the studies based on operational considerations analytics and reporting The book then describes methods of interest to advanced graduate students researchers and policy analysts who have a good grounding in quantitative methods but who are not necessarily quantitative methodologists In addition it provides a detailed exposition of the technical details behind these assessments including the test design the sampling framework and estimation methods with a focus on how these issues impact analysis choices   **An Introduction to the Rasch Model with Examples in R** Rudolf Debelak,Carolin Strobl,Matthew D. Zeigenfuse,2022-06-07 An Introduction to the Rasch Model with Examples in R offers a clear comprehensive introduction to the Rasch model along with practical examples in the free open source software R It is accessible for readers without a background in psychometrics or statistics while also providing detailed explanations of the relevant mathematical and statistical concepts for readers who want to gain a deeper understanding Its worked examples in R demonstrate how to apply the methods to real world examples and how to interpret the resulting output In addition to motivating and presenting the Rasch model the book covers different methods for parameter estimation and for assessing fit and differential item functioning DIF While focusing on the Rasch model it also addresses a variety of other dichotomous and polytomous Rasch and item response theory IRT models such as two parameter logistic 2PL and Partial Credit models and extensions including mixture Rasch models and computerized adaptive testing CAT Theory is presented in a self contained way All necessary mathematical and statistical background is contained in the chapters and appendices The book also provides detailed step by step instructions for getting started with R and using the eRm mirt TAM and rstan packages for fitting Rasch models

Handbook of Item Response Theory, Volume Two Wim J. van der Linden,2016-02-22 Drawing on the work of internationally acclaimed experts in the field Handbook of Item Response Theory Volume Two Statistical Tools presents classical and modern statistical tools used in item response theory IRT While IRT heavily depends on the use of statistical tools for handling its models and applications systematic introductions and reviews that emphasize their relevance to IRT are hardly found in the statistical literature This second volume in a three volume set fills this void Volume Two covers common probability distributions the issue of models with both intentional and nuisance parameters the use of information criteria methods for dealing with missing data and model identification issues It also addresses recent developments in parameter estimation and model fit and comparison such as Bayesian approaches specifically Markov chain Monte Carlo MCMC

methods   **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 Measurement of Health and Health Status Paul Krabbe,2016-10-07 The Measurement of Health and Health Status Concepts Methods and Applications from a Multidisciplinary Perspective presents a unifying perspective on how to select the best measurement framework for any situation Serving as a one stop shop that unifies material currently available in various locations this book illuminates the intuition behind each method explaining how each method has special purposes what developments are occurring and how new combinations among methods might be relevant to specific situations It especially emphasizes the measurement of health and health states quality of life giving significant attention to newly developed methods The book introduces technically complex new methods for both introductory and technically proficient readers Assumes that the best measure depends entirely on the situation Covers preference based methods classical test theory and item response theory Features illustrations and animations drawn from diverse fields and disciplines

   Exploring Language Frameworks Evelina D. Galaczi,Cyril J. Weir,2013-01-10 This book explores the impact of language frameworks on learning teaching and assessment viewed from the perspective of policies procedures and challenges It brings together a selection of edited papers based on presentations given at the 4th International Conference of the Association of Language Testers in Europe ALTE held in Krak w Poland in July 2011 The selected papers focus on the conference s core themes as follows the effect of frameworks on teaching learning and assessment the value of frameworks for teachers learners and language policymakers the contribution of frameworks towards describing particular languages   *Applying Test Equating Methods* Jorge González,Marie Wiberg,2017-03-06 This book describes how to use test equating methods in practice The non commercial software R is used throughout the book to illustrate how to perform different equating methods when scores data are collected under different data collection designs such as equivalent groups design single group design counterbalanced design and non equivalent groups with anchor test design The R packages equate kequate and SNSequate among others are used to practically illustrate the different methods while simulated and real data sets illustrate how the methods are conducted with the program R The book covers traditional equating methods including mean and linear equating frequency estimation equating and chain equating as well as modern equating methods such as kernel equating local equating and combinations of these It also offers chapters on observed and true score item response theory equating and discusses recent developments within the equating field More specifically it covers the issue of including covariates within the equating process the use of different kernels and ways of selecting bandwidths in kernel equating and the

Bayesian nonparametric estimation of equating functions It also illustrates how to evaluate equating in practice using simulation and different equating specific measures such as the standard error of equating percent relative error different that matters and others   Technology and Testing Fritz Drasgow,2015-08-20 From early answer sheets filled in with number 2 pencils to tests administered by mainframe computers to assessments wholly constructed by computers it is clear that technology is changing the field of educational and psychological measurement The numerous and rapid advances have immediate impact on test creators assessment professionals and those who implement and analyze assessments This comprehensive new volume brings together leading experts on the issues posed by technological applications in testing with chapters on game based assessment testing with simulations video assessment computerized test development large scale test delivery model choice validity and error issues Including an overview of existing literature and ground breaking research each chapter considers the technological practical and ethical considerations of this rapidly changing area Ideal for researchers and professionals in testing and assessment Technology and Testing provides a critical and in depth look at one of the most pressing topics in educational testing today The Open Access version of this book available at http www taylorfrancis com has been made available under a Creative Commons Attribution Non Commercial No Derivatives 4 0 license

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