


Parametric and nonparametric item response theory in survey research

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Justyna Brzezińska

Wydawnictwo C.H.Beck 



Introduction To Nonparametric Item Response Theory

Klaas Sijtsma, Ivo W. Molenaar



Introduction To Nonparametric Item Response Theory:

Introduction to Nonparametric Item Response Theory Klaas Sijtsma,Ivo W. Molenaar,2002-03-12 This book introduces social and behavioral science students and researchers to the theory and practice of the highly powerful methods of nonparametric item response theory IRT Anyone who uses or constructs tests or questionnaires for measuring abilities achievements personality traits attitudes or opinions will find nonparametric IRT useful for designing and improving such measurements The authors show how the broadness of the nonparametric item response models allows them to fit many data sets and remain powerful enough for implying useful measurement properties such as the ordering of persons using the simple total score number correct for dichotomous item tests and sum of rating scale score for polytomous item tests and the ordering of the items using the item means *Handbook of Item Response Theory* Wim J. van der Linden,2018-02-19 Drawing on the work of 75 internationally acclaimed experts in the field Handbook of Item Response Theory Three Volume Set presents all major item response models classical and modern statistical tools used in item response theory IRT and major areas of applications of IRT in educational and psychological testing medical diagnosis of patient reported outcomes and marketing research It also covers CRAN packages WinBUGS Bilog MG Multilog Parscale IRTPRO Mplus GLLAMM Latent Gold and numerous other software tools A full update of editor Wim J van der Linden and Ronald K Hambleton s classic Handbook of Modern Item Response Theory this handbook has been expanded from 28 chapters to 85 chapters in three volumes The three volumes are thoroughly edited and cross referenced with uniform notation format and pedagogical principles across all chapters Each chapter is self contained and deals with the latest developments in IRT **A Short Guide to Item Response Theory Models** Gerhard Tutz,2025-08-02 This book presents foundational concepts essential principles and practical applications of Item Response Theory IRT It provides a structured survey of diverse models that have been put forth emphasizing both their differences and commonalities The main focus is on modern latent trait theory models which provide measurement tools that clearly separate between person abilities and item parameters The topics covered include the binary Rasch model its extensions and alternative binary models ordinal models and their extensions that account for response styles the thresholds model classical test theory response models for count data differential item functioning and explanatory item response models Tree based item response models typically not found in classical IRT textbooks are also addressed Applications of the models are illustrated on several data sets from differing areas showing how models can be fitted and compared All examples have been computed using R Code snippets are provided and the full R code for most of the examples is available online The book is aimed at graduate students applied statisticians and researchers working in psychometrics educators and anyone curious about modeling strategies that enhance the precision and validity of their measurement tools It serves as an introductory guide for beginners while also providing a resource for those seeking an overview of the plethora of available IRT models Handbook of Item Response Theory Modeling Steven P. Reise,Dennis A.

Revicki,2014-11-20 Item response theory IRT has moved beyond the confines of educational measurement into assessment domains such as personality psychopathology and patient reported outcomes Classic and emerging IRT methods and applications that are revolutionizing psychological measurement particularly for health assessments used to demonstrate treatment effectiveness are reviewed in this new volume World renowned contributors present the latest research and methodologies about these models along with their applications and related challenges Examples using real data some from NIH PROMIS show how to apply these models in actual research situations Chapters review fundamental issues of IRT modern estimation methods testing assumptions evaluating fit item banking scoring in multidimensional models and advanced IRT methods New multidimensional models are provided along with suggestions for deciding among the family of IRT models available Each chapter provides an introduction describes state of the art research methods demonstrates an application and provides a summary The book addresses the most critical IRT conceptual and statistical issues confronting researchers and advanced students in psychology education and medicine today Although the chapters highlight health outcomes data the issues addressed are relevant to any content domain The book addresses IRT models applied to non educational data especially patient reported outcomes Differences between cognitive and non cognitive constructs and the challenges these bring to modeling The application of multidimensional IRT models designed to capture typical performance data Cutting edge methods for deriving a single latent dimension from multidimensional data A new model designed for the measurement of constructs that are defined on one end of a continuum such as substance abuse Scoring individuals under different multidimensional IRT models and item banking for patient reported health outcomes How to evaluate measurement invariance diagnose problems with response categories and assess growth and change Part 1 reviews fundamental topics such as assumption testing parameter estimation and the assessment of model and person fit New emerging and classic IRT models including modeling multidimensional data and the use of new IRT models in typical performance measurement contexts are examined in Part 2 Part 3 reviews the major applications of IRT models such as scoring item banking for patient reported health outcomes evaluating measurement invariance linking scales to a common metric and measuring growth and change The book concludes with a look at future IRT applications in health outcomes measurement The book summarizes the latest advances and critiques foundational topics such a multidimensionality assessment of fit handling non normality as well as applied topics such as differential item functioning and multidimensional linking Intended for researchers advanced students and practitioners in psychology education and medicine interested in applying IRT methods this book also serves as a text in advanced graduate courses on IRT or measurement Familiarity with factor analysis latent variables IRT and basic measurement theory is assumed Essays on Item Response Theory Anne Boomsma,Marijtje van Duijn,Tom Snijders,2012-12-06 This collection of papers provides an up to date treatment of item response theory an important topic in educational testing Handbook of Polytomous Item Response Theory Models Michael Nering,Remo Ostini,2011-01-19 This

comprehensive Handbook focuses on the most used polytomous item response theory IRT models. These models help us understand the interaction between examinees and test questions where the questions have various response categories. The book reviews all of the major models and includes discussions about how and where the models originated conceptually and in practical terms. Diverse perspectives on how these models can best be evaluated are also provided. Practical applications provide a realistic account of the issues practitioners face using these models. Disparate elements of the book are linked through editorial sidebars that connect common ideas across chapters, compare and reconcile differences in terminology and explain variations in mathematical notation. These sidebars help to demonstrate the commonalities that exist across the field. By assembling this critical information, the editors hope to inspire others to use polytomous IRT models in their own research so they too can achieve the type of improved measurement that such models can provide.

Part 1 examines the most commonly used polytomous IRT models, major issues that cut across these models, and a common notation for calculating functions for each model. An introduction to IRT software is also provided. Part 2 features distinct approaches to evaluating the effectiveness of polytomous IRT models in various measurement contexts. These chapters appraise evaluation procedures and fit tests and demonstrate how to implement these procedures using IRT software. The final section features groundbreaking applications. Here the goal is to provide solutions to technical problems to allow for the most effective use of these models in measuring educational, psychological, and social science abilities and traits. This section also addresses the major issues encountered when using polytomous IRT models in computerized adaptive testing. Equating test scores across different testing contexts is the focus of the last chapter. The various contexts include personality research, motor performance, health, and quality of life indicators, attitudes, and educational achievement. Featuring contributions from the leading authorities, this handbook will appeal to measurement researchers, practitioners, and students who want to apply polytomous IRT models to their own research. It will be of particular interest to education and psychology assessment specialists who develop and use tests and measures in their work, especially researchers in clinical, educational, personality, social, and health psychology. This book also serves as a supplementary text in graduate courses on educational measurement, psychometrics, or item response theory.

Multidimensional Item Response Theory Wes Bonifay, 2019-12-10

Several decades of psychometric research have led to the development of sophisticated models for multidimensional test data, and in recent years multidimensional item response theory (MIRT) has become a burgeoning topic in psychological and educational measurement. Considered a cutting edge statistical technique, the methodology underlying MIRT can be complex and therefore doesn't receive much attention in introductory IRT courses. However, author Wes Bonifay shows how MIRT can be understood and applied by anyone with a firm grounding in unidimensional IRT modeling. His volume includes practical examples and illustrations along with numerous figures and diagrams. Multidimensional Item Response Theory includes snippets of R code interspersed throughout the text, with the complete R code included on an accompanying website to guide readers in exploring MIRT models.

estimating the model parameters generating plots and implementing the various procedures and applications discussed throughout the book

Ordinal Item Response Theory Wijnand H. van der Schoot, 2011-05-04 Measurement in the social sciences often refers to standardized answers to close ended questions in which answers are analyzed as if they were measurements on an interval scale This volume presents a measurement model that maintains the ordinal aspects of the data in order to establish how well the model fits and how it measures subjects and items It relaxes the most stringent assumptions from parametric item response theory while maintaining its advantages over classical measurement methods such as reliability and factor analysis This volume is less technical than other books on the topic and is ideal for introductory courses in social science measurement

The Wiley Handbook of Psychometric Testing Paul Irwing, Tom Booth, David J. Hughes, 2018-02-12 A must have resource for researchers practitioners and advanced students interested or involved in psychometric testing Over the past hundred years psychometric testing has proved to be a valuable tool for measuring personality mental ability attitudes and much more The word psychometrics can be translated as mental measurement however the implication that psychometrics as a field is confined to psychology is highly misleading Scientists and practitioners from virtually every conceivable discipline now use and analyze data collected from questionnaires scales and tests developed from psychometric principles and the field is vibrant with new and useful methods and approaches This handbook brings together contributions from leading psychometricians in a diverse array of fields around the globe Each provides accessible and practical information about their specialist area in a three step format covering historical and standard approaches innovative issues and techniques and practical guidance on how to apply the methods discussed Throughout real world examples help to illustrate and clarify key aspects of the topics covered The aim is to fill a gap for information about psychometric testing that is neither too basic nor too technical and specialized and will enable researchers practitioners and graduate students to expand their knowledge and skills in the area Provides comprehensive coverage of the field of psychometric testing from designing a test through writing items to constructing and evaluating scales Takes a practical approach addressing real issues faced by practitioners and researchers Provides basic and accessible mathematical and statistical foundations of all psychometric techniques discussed Provides example software code to help readers implement the analyses discussed

Handbook of Modern Item Response Theory Wim J. van der Linden, Ronald K. Hambleton, 2013-03-09 Item response theory has become an essential component in the toolkit of every researcher in the behavioral sciences It provides a powerful means to study individual responses to a variety of stimuli and the methodology has been extended and developed to cover many different models of interaction This volume presents a wide ranging handbook to item response theory and its applications to educational and psychological testing It will serve as both an introduction to the subject and also as a comprehensive reference volume for practitioners and researchers It is organized into six major sections the nominal categories model models for response time or multiple attempts on items models for

multiple abilities or cognitive components nonparametric models models for nonmonotone items and models with special assumptions Each chapter in the book has been written by an expert of that particular topic and the chapters have been carefully edited to ensure that a uniform style of notation and presentation is used throughout As a result all researchers whose work uses item response theory will find this an indispensable companion to their work and it will be the subject's reference volume for many years to come

Best Practices in Quantitative Methods Jason W. Osborne, 2008 The contributors to *Best Practices in Quantitative Methods* envision quantitative methods in the 21st century identify the best practices and where possible demonstrate the superiority of their recommendations empirically Editor Jason W Osborne designed this book with the goal of providing readers with the most effective evidence based modern quantitative methods and quantitative data analysis across the social and behavioral sciences The text is divided into five main sections covering select best practices in Measurement Research Design Basics of Data Analysis Quantitative Methods and Advanced Quantitative Methods Each chapter contains a current and expansive review of the literature a case for best practices in terms of method outcomes inferences etc and broad ranging examples along with any empirical evidence to show why certain techniques are better Key Features Describes important implicit knowledge to readers The chapters in this volume explain the important details of seemingly mundane aspects of quantitative research making them accessible to readers and demonstrating why it is important to pay attention to these details Compares and contrasts analytic techniques The book examines instances where there are multiple options for doing things and make recommendations as to what is the best choice or choices as what is best often depends on the circumstances Offers new procedures to update and explicate traditional techniques The featured scholars present and explain new options for data analysis discussing the advantages and disadvantages of the new procedures in depth describing how to perform them and demonstrating their use Intended Audience Representing the vanguard of research methods for the 21st century this book is an invaluable resource for graduate students and researchers who want a comprehensive authoritative resource for practical and sound advice from leading experts in quantitative methods

Handbook of Diagnostic Classification Models Matthias von Davier, Young-Sun Lee, 2019-10-11 This handbook provides an overview of major developments around diagnostic classification models DCMs with regard to modeling estimation model checking scoring and applications It brings together not only the current state of the art but also the theoretical background and models developed for diagnostic classification The handbook also offers applications and special topics and practical guidelines how to plan and conduct research studies with the help of DCMs Commonly used models in educational measurement and psychometrics typically assume a single latent trait or at best a small number of latent variables that are aimed at describing individual differences in observed behavior While this allows simple rankings of test takers along one or a few dimensions it does not provide a detailed picture of strengths and weaknesses when assessing complex cognitive skills DCMs on the other hand allow the evaluation of test taker performance

relative to a potentially large number of skill domains Most diagnostic models provide a binary mastery non mastery classification for each of the assumed test taker attributes representing these skill domains Attribute profiles can be used for formative decisions as well as for summative purposes for example in a multiple cut off procedure that requires mastery on at least a certain subset of skills The number of DCMs discussed in the literature and applied to a variety of assessment data has been increasing over the past decades and their appeal to researchers and practitioners alike continues to grow These models have been used in English language assessment international large scale assessments and for feedback for practice exams in preparation of college admission testing just to name a few Nowadays technology based assessments provide increasingly rich data on a multitude of skills and allow collection of data with respect to multiple types of behaviors Diagnostic models can be understood as an ideal match for these types of data collections to provide more in depth information about test taker skills and behavioral tendencies Real Data Analysis Shlomo S. Sawilowsky, 2007-01-01 The invited authors of this edited volume have been prolific in the arena of Real Data Analysis RDA as it applies to the social and behavioral sciences especially in the disciplines of education and psychology Combined this brain trust represents 3 247 articles in refereed journals 127 books published US 45 3 Million in extramural research funding 34 teaching and 92 research awards served as Editor Assistant Editor Editorial Board Member for 95 peer reviewed journals and provided ad hoc reviews for 362 journals Their enormous footprint on real data analysis is showcased for professors researchers educators administrators and graduate students in the second text in the AERA SIG ES Quantitative Methods series

Quantitative Psychology Marie Wiberg, Dylan Molenaar, Jorge González, Jee-Seon Kim, Heungsun Hwang, 2023-06-14 The volume represents presentations given at the 87th annual meeting of the Psychometric Society held in Bologna Italy at July 11 15 2022 The proceedings cover a diverse set of psychometric topics including item response theory Bayesian models reliability latent variable models causal inference and cognitive diagnostic models **Contributions to Mokken's**

Nonparametric Item Response Theory Klaas Sijtsma, 1988 *Clinical Psychometrics* Per Bech, 2012-09-24 Clinical Psychometrics is an introduction to the long term attempt to measure the psychiatric dimension of dementia schizophrenia mania depression anxiety neuroticism extraversion introversion and health related quality of life The two psychometric procedures classical factor analysis and modern item response models are presented for readers without any requirement for particular mathematical or statistical knowledge The book is unique in this attempt and provides helpful background information for the dimensional approach that is being used in the forthcoming updates to the diagnostic classification systems ICD 11 and DSM 5 The book is written for everyone who is interested in the origins and development of modern psychiatry and who wants to be familiar with its practical possibilities how it is possible to compare different individuals with each other how one may determine the boundary between what is normal and what is disease or how one may assess the clinical effect of the various forms of treatment available to present day psychiatry Quantitative Psychology L. Andries

van der Ark, Marie Wiberg, Steven A. Culpepper, Jeffrey A. Douglas, Wen-Chung Wang, 2017-06-06 This proceedings volume compiles and expands on selected and peer reviewed presentations given at the 81st Annual Meeting of the Psychometric Society IMPS organized by the University of North Carolina at Greensboro and held in Asheville North Carolina July 11th to 17th 2016 IMPS is one of the largest international meetings focusing on quantitative measurement in psychology education and the social sciences both in terms of participants and number of presentations The meeting built on the Psychometric Society's mission to share quantitative methods relevant to psychology addressing a diverse set of psychometric topics including item response theory factor analysis structural equation modeling time series analysis mediation analysis cognitive diagnostic models and multi level models Selected presenters were invited to revise and expand their contributions and to have them peer reviewed and published in this proceedings volume Previous volumes to showcase work from the Psychometric Society's meetings are New Developments in Quantitative Psychology Presentations from the 77th Annual Psychometric Society Meeting Springer 2013 Quantitative Psychology Research The 78th Annual Meeting of the Psychometric Society Springer 2015 Quantitative Psychology Research The 79th Annual Meeting of the Psychometric Society Madison Wisconsin 2014 Springer 2015 and Quantitative Psychology Research The 80th Annual Meeting of the Psychometric Society Beijing 2015 Springer 2016

Handbook of Probability Tamás Rudas, 2008-02-21 This is a valuable reference guide for readers interested in gaining a basic understanding of probability theory or its applications in problem solving in the other disciplines CHOICE Providing cutting edge perspectives and real world insights into the greater utility of probability and its applications the Handbook of Probability offers an equal balance of theory and direct applications in a non technical yet comprehensive format Editor Tamás Rudas and the internationally known contributors present the material in a manner so that researchers of various backgrounds can use the reference either as a primer for understanding basic probability theory or as a more advanced research tool for specific projects requiring a deeper understanding The wide ranging applications of probability presented make it useful for scholars who need to make interdisciplinary connections in their work Key Features Contains contributions from the international who's who of probability across several disciplines Offers an equal balance of theory and applications Explains the most important concepts of probability theory in a non technical yet comprehensive way Provides in depth examples of recent applications in the social and behavioral sciences as well as education business and law Intended Audience This Handbook makes an ideal library purchase In addition this volume should also be of interest to individual scholars in the social and behavioral sciences

Statistical Approaches to Measurement Invariance Roger E. Millsap, 2012-03-29 This book reviews the statistical procedures used to detect measurement bias Measurement bias is examined from a general latent variable perspective so as to accommodate different forms of testing in a variety of contexts including cognitive or clinical variables attitudes personality dimensions or emotional states Measurement models that underlie psychometric practice are described including their strengths and limitations

Practical strategies and examples for dealing with bias detection are provided throughout The book begins with an introduction to the general topic followed by a review of the measurement models used in psychometric theory Emphasis is placed on latent variable models with introductions to classical test theory factor analysis and item response theory and the controversies associated with each being provided Measurement invariance and bias in the context of multiple populations is defined in chapter 3 followed by chapter 4 that describes the common factor model for continuous measures in multiple populations and its use in the investigation of factorial invariance Identification problems in confirmatory factor analysis are examined along with estimation and fit evaluation and an example using WAIS R data The factor analysis model for discrete measures in multiple populations with an emphasis on the specification identification estimation and fit evaluation issues is addressed in the next chapter An MMPI item data example is provided Chapter 6 reviews both dichotomous and polytomous item response scales emphasizing estimation methods and model fit evaluation The use of models in item response theory in evaluating invariance across multiple populations is then described including an example that uses data from a large scale achievement test Chapter 8 examines item bias evaluation methods that use observed scores to match individuals and provides an example that applies item response theory to data introduced earlier in the book The book concludes with the implications of measurement bias for the use of tests in prediction in educational or employment settings A valuable supplement for advanced courses on psychometrics testing measurement assessment latent variable modeling and or quantitative methods taught in departments of psychology and education researchers faced with considering bias in measurement will also value this book

Essays on Contemporary Psychometrics L. Andries van der Ark, Wilco H. M. Emons, Rob R. Meijer, 2023-03-17 This book Essays on Contemporary Psychometrics provides an overview of contemporary psychometrics the science devoted to the advancement of quantitative measurement practices in psychology education and the social sciences The volume consists of four parts each having several chapters on cutting edge work in the field Part I General Perspectives on Psychometrics includes expert views on topics such as psychological models vs measurement models using tests in decision making artificial intelligence and psychometric network models Part II Factor Analysis and Classical Test Theory the type of psychometrics that is still used most often in the social and behavioral sciences includes state of the art contributions on test score reliability change score reliability handling missing data in principal component analysis test equating and conditional standard errors of measurement Part III Item Response Theory the leading form of psychometrics in modern educational measurement includes discussions of sampling from many conditional distributions transparent score reporting nonparametric item response theory and targeted testing Part IV New Psychometrics discusses recently developed ideas beyond classical test theory and item response theory including topics related to computer adaptive testing response time modelling validity indices diagnostic classification models and the sparse latent class model for ordinal measurements Together these four parts provide an overview of the current state of the art in psychometrics in educational measurement

They are a valuable source of information for graduate students who intend to study psychometrics and need an overview of the field and for researchers interested in the current developments in the field Chapters 3 5 8 16 and 19 are available open access under a Creative Commons Attribution 4 0 International License via link [springer.com](https://www.springer.com)

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