

Statistics for Social and Behavioral Sciences

Michael J. Kolen
Robert L. Brennan

Test Equating, Scaling, and Linking

Methods and Practices

Third Edition

 Springer

Test Equating Scaling And Linking Methods And Practices

**Susan Davis-Becker, Chad W.
Buckendahl**



Test Equating Scaling And Linking Methods And Practices:

Test Equating, Scaling, and Linking Michael J. Kolen, Robert L. Brennan, 2014-01-13 This book provides an introduction to test equating scaling and linking including those concepts and practical issues that are critical for developers and all other testing professionals In addition to statistical procedures successful equating scaling and linking involves many aspects of testing including procedures to develop tests to administer and score tests and to interpret scores earned on tests Test equating methods are used with many standardized tests in education and psychology to ensure that scores from multiple test forms can be used interchangeably Test scaling is the process of developing score scales that are used when scores on standardized tests are reported In test linking scores from two or more tests are related to one another Linking has received much recent attention due largely to investigations of linking similarly named tests from different test publishers or tests constructed for different purposes In recent years researchers from the education psychology and statistics communities have contributed to the rapidly growing statistical and psychometric methodologies used in test equating scaling and linking In addition to the literature covered in previous editions this new edition presents coverage of significant recent research In order to assist researchers advanced graduate students and testing professionals examples are used frequently and conceptual issues are stressed New material includes model determination in log linear smoothing in depth presentation of chained linear and equipercentile equating equating criteria test scoring and a new section on scores for mixed format tests In the third edition each chapter contains a reference list rather than having a single reference list at the end of the volume The themes of the third edition include the purposes of equating scaling and linking and their practical context data collection designs statistical methodology designing reasonable and useful equating scaling and linking studies importance of test development and quality control processes to equating equating error and the underlying statistical assumptions for equating

Test Equating, Scaling, and Linking Michael J. Kolen, Robert L. Brennan, 2004-08-25 By providing an introduction to test equating which both discusses the most frequently used equating methodologies and covering many of the practical issues involved this volume expands upon the coverage of the first edition by providing a new chapter on test scaling and a second on test linking

Test Equating Michael J. Kolen, Robert L. Brennan, 2013-11-11 In recent years many researchers in the psychology and statistical communities have paid increasing attention to test equating as issues of using multiple test forms have arisen and in response to criticisms of traditional testing techniques This book provides a practically oriented introduction to test equating which both discusses the most frequently used equating methodologies and covers many of the practical issues involved The main themes are the purpose of equating distinguishing between equating and related methodologies the importance of test equating to test development and quality control the differences between equating properties equating designs and equating methods equating error and the underlying statistical assumptions for equating The authors are acknowledged experts in the field and the book is based on numerous courses and seminars they

have presented As a result educators psychometricians professionals in measurement statisticians and students coming to the subject for the first time as part of their graduate study will find this an invaluable text and reference Test Equating, Scaling, and Linking Michael J. Kolen, Robert L. Brennan, 2014-01-31 Test Equating, Scaling, and Linking Michael J. Kolen, Robert L. Brennan, 2014-01-15 **Statistical Models for Test Equating, Scaling, and Linking** Alina von Davier, 2010-10-19 The goal of this book is to emphasize the formal statistical features of the practice of equating linking and scaling The book encourages the view and discusses the quality of the equating results from the statistical perspective new models robustness fit testing hypotheses statistical monitoring as opposed to placing the focus on the policy and the implications which although very important represent a different side of the equating practice The book contributes to establishing equating as a theoretical field a view that has not been offered often before The tradition in the practice of equating has been to present the knowledge and skills needed as a craft which implies that only with years of experience under the guidance of a knowledgeable practitioner could one acquire the required skills This book challenges this view by indicating how a good equating framework a sound understanding of the assumptions that underlie the psychometric models and the use of statistical tests and statistical process control tools can help the practitioner navigate the difficult decisions in choosing the final equating function This book provides a valuable reference for several groups a statisticians and psychometricians interested in the theory behind equating methods in the use of model based statistical methods for data smoothing and in the evaluation of the equating results in applied work b practitioners who need to equate tests including those with these responsibilities in testing companies state testing agencies and school districts and c instructors in psychometric measurement and psychology programs Educational Measurement Robert L. Brennan, 2023-10-03 Educational Measurement has been the bible in its field since the first edition was published by ACE in 1951 The importance of this fourth edition of Educational Measurement is to extensively update and extend the topics treated in the previous three editions As such the fourth edition documents progress in the field and provides critical guidance to the efforts of new generations of researchers and practitioners Edited by Robert Brennan and jointly sponsored by the American Council on Education ACE and the National Council on Measurement in Education the fourth edition provides in depth treatments of critical measurement topics and the chapter authors are acknowledged experts in their respective fields Educational measurement researchers and practitioners will find this text essential and those interested in statistics psychology business and economics should also find this work to be of very strong interest Topics covered are divided into three subject areas theory and general principles construction administration and scoring and applications The first part of the book covers the topics of validation reliability item response theory scaling and norming linking and equating test fairness and cognitive psychology Part two includes chapters on test development test administration performance assessment setting performance standards and technology in testing The final section includes chapters on second language testing testing for accountability

in K 12 schools standardized assessment of individual achievement in K 12 schools higher education admissions testing monitoring educational progress licensure and certification testing and legal and ethical issues The ^AOxford Handbook of Assessment Policy and Practice in Music Education, Volume 1 Timothy S. Brophy,2019-01-02 In this two volume Handbook contributors from across the globe provide expert perspectives on the assessment measurement and evaluation of student learning in music *Quantitative Psychology Research* L. Andries van der Ark,Daniel M. Bolt,Wen-Chung Wang,Jeffrey A. Douglas,Marie Wiberg,2016-08-04 The research articles in this volume cover timely quantitative psychology topics including new methods in item response theory computerized adaptive testing cognitive diagnostic modeling and psychological scaling Topics within general quantitative methodology include structural equation modeling factor analysis causal modeling mediation missing data methods and longitudinal data analysis These methods will appeal in particular to researchers in the social sciences The 80th annual meeting took place in Beijing China between the 12th and 16th of July 2015 Previous volumes to showcase work from the Psychometric Society s Meeting 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 and Quantitative Psychology Research The 79th Annual Meeting of the Psychometric Society Wisconsin USA 2014 Springer 2015 **Quantitative Psychology** Marie Wiberg,Jee-Seon Kim,2024-06-18 This book includes presentations given at the 88th annual meeting of the Psychometric Society held in Maryland USA on July 24 28 2023 The proceeding covers a diverse set of psychometric topics The topics include but are not limited to item response theory cognitive diagnostic models Bayesian estimation validity and reliability issues and several applications within different fields The authors are from all over the world they work in different psychometrics areas as well as having diverse professional and academic experiences **Applied Measurement with jMetrik** J. Patrick Meyer,2014-06-13 jMetrik is a computer program for implementing classical and modern psychometric methods It is designed to facilitate work in a production environment and to make advanced psychometric procedures accessible to every measurement practitioner Applied Measurement with jMetrik reviews psychometric theory and describes how to use jMetrik to conduct a comprehensive psychometric analysis Each chapter focuses on a topic in measurement describes the steps for using jMetrik and provides one or more examples of conducting an analysis on the topic Recommendations and guidance for practice is provided throughout the book **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

Setting Performance Standards Gregory J. Cizek, 2012-03-22 Setting standards of performance is a ubiquitous task in education licensure certification and credentialling It is found in elementary schooling the professions commercial applications and governmental and private organizations It is one of the most complex controversial and vexing issues facing specialists and policy makers today This second edition solidifies *Setting Performance Standards* as the only book providing a comprehensive profile of both the issues and the how to methods that define this thorny field Four chapters have been removed 11 chapters have been added 2 chapters have major revisions and all chapters have been updated Comprehensive Part I provides a conceptual overview of standard setting and its overarching issues Part II provides practical how to information on the newest standard setting methods Part III provides information and advice on

persistent and potential challenges in standard setting Practical Part II the heart of the book reviews 16 of the newest standard setting methods far more than any other book Expertise Most of the well known authors from the 1st edition return with authors of equal stature contributing new chapters *Encyclopedia of Measurement and Statistics* Neil J. Salkind,2007
 Publisher Description *Handbook of Research Methods in Personality Psychology* Richard W. Robins,R. Chris Fraley,Robert F. Krueger,2009-12-09 Bringing together leading investigators this comprehensive handbook is a one stop reference for anyone planning or conducting research on personality It provides up to date analyses of the rich array of methodological tools available today giving particular attention to real world theoretical and logistical challenges and how to overcome them In chapters filled with detailed practical examples readers are shown step by step how to formulate a suitable research design select and use high quality measures and manage the complexities of data analysis and interpretation Coverage ranges from classic methods like self report inventories and observational procedures to such recent innovations as neuroimaging and genetic analyses **Testing in the Professions** Susan Davis-Becker,Chad W. Buckendahl,2017-03-16
 Testing in the Professions focuses on current practices in credentialing testing as a guide for practitioners With a broad focus on the key components issues and concerns surrounding the test development and validation process this book brings together a wide range of research and theory from design and analysis of tests to security scoring and reporting Written by leading experts in the field of measurement and assessment each chapter includes authentic examples as to how various practices are implemented or current issues observed in credentialing programs The volume begins with an exploration of the various types of credentialing programs as well as key differences in the interpretation and evaluation of test scores The next set of chapters discusses key test development steps including test design content development analysis and evaluation The final set of chapters addresses specific topics that span the testing process including communication with stakeholders security program evaluation and legal principles As a response to the growing number of professions and professional designations that are tied to testing requirements Testing in the Professions is a comprehensive source for up to date measurement and credentialing practices **Test Fairness in the New Generation of Large-Scale Assessment** Hong Jiao,Robert W. Lissitz,2017-06-01 The new generation of tests is faced with new challenges In the K 12 setting the new learning targets are intended to assess higher order thinking skills and prepare students to be ready for college and career and to keep American students competitive with their international peers In addition the new generation of state tests requires the use of technology in item delivery and embedding assessment in real world authentic situations It further requires accurate assessment of students at all ability levels One of the most important questions is how to maintain test fairness in the new assessments with technology innovative items and technology delivered tests In the traditional testing programs such as licensure and certification tests and college admission tests test fairness has constantly been a key psychometric issue in test development and this continues to be the case with the national testing programs As test fairness

needs to be addressed throughout the whole process of test development experts from state admission and licensure tests will address test fairness challenges in the new generation assessment The book chapters clarify misconceptions of test fairness including the use of admission test results in cohort comparison the use of international assessment results in trend evaluation whether standardization and fairness necessarily mean uniformity when test takers have different cultural backgrounds and whether standardization can insure fairness More technically chapters also address issues related to how compromised items and test fairness are related to classification decisions how accessibility in item development and accommodation could be mingled with technology how to assess special populations with dyslexia using Blinder Oaxaca Decomposition for differential item functioning detection and differential feature functioning in automated scoring Overall this book addresses test fairness issues in state assessment college admission testing international assessment and licensure tests Fairness is discussed in the context of culture and special populations Further fairness related to performance assessment and automated scoring is a focus as well This book provides a very good source of information related to test fairness issues in test development in the new generation of assessment where technology is highly involved

Handbook of Test Development Suzanne Lane, Mark R. Raymond, Thomas M. Haladyna, 2015-10-08 The second edition of the Handbook of Test Development provides graduate students and professionals with an up to date research oriented guide to the latest developments in the field Including thirty two chapters by well known scholars and practitioners it is divided into five sections covering the foundations of test development content definition item development test design and form assembly and the processes of test administration documentation and evaluation Keenly aware of developments in the field since the publication of the first edition including changes in technology the evolution of psychometric theory and the increased demands for effective tests via educational policy the editors of this edition include new chapters on assessing noncognitive skills measuring growth and learning progressions automated item generation and test assembly and computerized scoring of constructed responses The volume also includes expanded coverage of performance testing validity fairness and numerous other topics Edited by Suzanne Lane Mark R Raymond and Thomas M Haladyna The Handbook of Test Development 2nd edition is based on the revised Standards for Educational and Psychological Testing and is appropriate for graduate courses and seminars that deal with test development and usage professional testing services and credentialing agencies state and local boards of education and academic libraries serving these groups

Test Development and Validation Gary Skaggs, 2022-01-04 Test Development and Validation by Gary Skaggs summarizes the latest test theories frameworks for test development and validation and guidance for developing tests in straightforward language in one core text Students looking for clear concise explanations of measurement validity and test development within a real world context and with numerous examples will find this book to be an excellent learning resource Author Gary Skaggs takes years of experience teaching test development to graduate students across social and behavioral sciences and consulting on a wide

variety of government and institutional research projects to offer students a thorough jargon free and highly applied book to help propel their own research and careers Part I of the book The Big Picture sets the stage for test development placing it within the larger context and history of measurement emphasizing measurement concepts and their evolution over time Part II Test Development covers the technical details of instrument and test development in logical order Validation Part III links the conceptual bases provided in Part I with the technical process provided in Part II to conclude the book For those students wanting to go further software suggestions are referenced in the technical chapters while Further Reading sections offer the original sources for more details Exercises and Activities at the end of each chapter provide students a variety of ways to apply their knowledge from conceptual questions to brief project ideas to data analysis problems Handbook on Measurement, Assessment, and Evaluation in Higher Education Charles Secolsky, D. Brian Denison, 2017-07-31 In this valuable resource well known scholars present a detailed understanding of contemporary theories and practices in the fields of measurement assessment and evaluation with guidance on how to apply these ideas for the benefit of students and institutions Bringing together terminology analytical perspectives and methodological advances this second edition facilitates informed decision making while connecting the latest thinking in these methodological areas with actual practice in higher education This research handbook provides higher education administrators student affairs personnel institutional researchers and faculty with an integrated volume of theory method and application

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