

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

Paula Winke, Tineke Brunfaut



Test Equating Scaling And Linking Methods And Practices:

Test Equating, Scaling, and Linking Michael J. Kolen, Robert L. Brennan, 2013-03-14 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 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 This book provides an introduction to test equating which both discusses the most frequently used equating methodologies and covers many of the practical issues involved This second edition expands upon the coverage of the first edition by providing a new chapter on test scaling and a second on test linking 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 The expanded coverage in the second edition also includes methodology for using polytomous item response theory in equating The themes of the second 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 Given the perennial debates about academic standards and grade inflation it is my view that tools such as those described in this book should be adopted much more widely by the academic community than they are at present This book provides an excellent overview and I strongly recommend it Short Book Reviews of the ISI April 2005 I highly recommend this book to everybody who has any interest in equating and linking be they a student practitioner or researcher Psychometrika 2006

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 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

Rasch Model for Language Testing Quan Zhang, 2025-11-26 This book focuses on the crucial theme of modern test development and analysis specifically focusing on bridging the gap between theoretical frameworks and practical applications This resource offers a practical and detailed exploration of psychometric principles encompassing both classical test theory CTT based item analysis and item response theory IRT specifically focusing on the one parameter model Rasch model for test equating By considering CTT and the more sophisticated Rasch model the book provides a comprehensive pathway to enhanced measurement accuracy and efficiency in the human sciences It aims to empower readers with the tools and knowledge necessary to navigate the complexities of test equating item bank creation and the implementation of computerized adaptive testing CAT It provides historical context for these methodologies and outlines prospects for Rasch research emphasizing the importance of establishing a common scale for measuring ability A significant contribution is the introduction of Rasch GZ a cutting edge software developed during the COVID 19 pandemic that incorporates AI driven assistance and bilingual support potentially streamlining the calibration process of items within an item bank The book thoroughly reviews fundamental concepts such as item difficulty and discrimination ensuring readers grasp the theoretical underpinnings of both CTT and IRT It delves into various test equating

techniques including Common Item Linking and potentially Common Subject Linking crucial for maintaining invariance across different test forms within a Standardized Examination Real world examples with detailed interpretations serve as a step by step guide to these procedures often relying on anchor items While implicitly addressing the concept of the norm in the context of standardized examination interpretation the resource primarily focuses on the application of psychometric software Access to the student version of Rasch GZ is provided through code alongside supplementary video tutorials facilitating hands on learning and software mastery This book could be used by practitioners in the fields of applied linguistics applied psychology language testing education management and researchers working on language testing methods

Handbook of Test Development Thomas M. Haladyna, Steven M. Downing, 2011-04-26 Despite the fact that test development is a growth industry that cuts across all levels of education and all the professions there has never been a comprehensive research oriented Handbook to which everyone developers and consumers can turn for guidance That is the mission of this book The Handbook of Test Development brings together well known scholars and test development practitioners to present chapters on all aspects of test development Each chapter contributor is not only a recognized expert with an academic and research background in their designated topic each one has also had hands on experience in various aspects of test development This thirty two chapter volume is organized into six sections foundations content item development test design test production and administration and post test activities The Handbook provides extensive treatment of such important but unrecognized topics as contracting for testing services item banking designing tests for small testing program and writing technical reports The Handbook is based on the Standards for Educational and Psychological Testing which serve as the foundation for sound test development practice These chapters also suggest best test development practices and highlight methods to improve test validity evidence This book 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

The Future of Test-Based Educational Accountability Katherine E. Ryan, Lorrie A. Shepard, 2009-06-09 In recent decades testing has become a much more visible and high stakes accountability mechanism that is now seen as a powerful tool that can be used to drive school improvement The purpose of this book is to identify and analyze the key issues associated with test based educational accountability and to chart the future of educational accountability research Chapter contributions are intended to be forward looking rather than a compendium of what has happened in the past The book provides an accessible discussion of issues such as validity test equating growth modeling fairness for special populations causal inferences and misuses of accountability data

The Routledge Handbook of Second Language Acquisition and Language Testing Paula Winke, Tineke Brunfaut, 2020-12-27 This Handbook with 45 chapters written by the world s leading scholars in second language acquisition SLA and language testing dives into the important interface between SLA and language testing shared

ground where researchers seek to measure second language performance to better understand how people learn their second languages The Handbook also reviews how to best measure and evaluate the second language L2 learners personal characteristics backgrounds and learning contexts to better understand their L2 learning trajectories Taking a transdisciplinary approach to research the book builds upon recent theorizing and measurement principles from the fields of applied linguistics cognitive science psychology psycholinguistics psychometrics educational measurement and social psychology The Handbook is divided into six key sections 1 Assessment concepts for SLA researchers 2 Building instruments for SLA research 3 Measuring individual differences 4 Measuring language development 5 Testing specific populations and 6 Measurement principles for SLA researchers

Proceedings of the Pacific-Rim Objective Measurement Symposium (PROMS 2023) Quan Zhang,2024-08-12 This is an open access book PROMS conference is a premier international venue for Rasch researchers and practitioners to share new ideas research results and development experiences We welcome abstracts in all areas of research including conceptual and empirical studies that are conducted with quantitative qualitative and mixed methods Topics include but are not limited to Rasch model or Rasch based

Meaningful Language Test Scores Spiros Papageorgiou,Venessa F. Manna,2023-06-15 Research on how stakeholders interpret language test scores and how they make decisions about language proficiency is critical because score based decisions can be extremely consequential for test takers score users such as educational institutions and employers and the society overall This edited volume is intended as a primary resource for language assessment researchers developers and policy makers interested in efficiently communicating score information related to language proficiency Its nine chapters report on complicated often behind the scenes research efforts to enhance the interpretation of English language test scores developed by ETS by employing diverse methodologies such as vertical linking score mapping standard setting scale anchoring and score concordance In a post pandemic era full of challenges and change in the field of language assessment this volume highlights the ethical responsibility of test providers to engage in sometimes challenging research and development efforts to better serve score users

The History of Educational Measurement Brian E. Clauser,Michael B. Bunch,2021-07-07 The History of Educational Measurement collects essays on the most important topics in educational testing measurement and psychometrics Authored by the field s top scholars this book offers unique historical viewpoints from origins to modern applications of formal testing programs and mental measurement theories Topics as varied as large scale testing validity item response theory federal involvement and notable assessment controversies complete a survey of the field s greatest challenges and most important achievements Graduate students researchers industry professionals and other stakeholders will find this volume relevant for years to come

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

Effects of Test Linking Methods on Proficiency Classification Young Yee Kim,2008

Model Selection Methods for Unidimensional and Multidimensional IRT Models Taehoon Kang,2006

Statistical Models for Test Equating, Scaling, and Linking Alina von Davier,2011-03-04 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 Journal of the American Statistical Association ,2007 *Multidimensionality and Item Parameter Drift* Xin Li,2008 Encyclopedia of Measurement and Statistics Neil J. Salkind,2007 Publisher Description

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