

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

Michael J Kolen, Robert L Brennan



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 **Handbook of Ethics in Quantitative Methodology** A. T. Panter, 2011-03-01 This comprehensive Handbook is the first to provide a practical interdisciplinary review of ethical issues as they relate to quantitative methodology including how to present evidence for reliability and validity what comprises an adequate tested population and what constitutes scientific knowledge for eliminating biases The book uses an ethical framework that emphasizes the human cost of quantitative decision making to help researchers understand the specific implications of their choices The order of the Handbook chapters parallels the chronology of the research process determining the research design and data collection data analysis and communicating findings Each chapter Explores the ethics of a particular topic Identifies prevailing methodological issues Reviews strategies and approaches for handling such issues and their ethical implications Provides one or more case examples Outlines plausible approaches to the issue including best practice solutions Part 1 presents ethical frameworks that cross cut design analysis and modeling in the behavioral sciences Part 2 focuses on ideas for disseminating ethical training in statistics courses Part 3 considers the ethical aspects of selecting measurement instruments and sample size planning and explores issues related to high stakes testing the defensibility of experimental vs quasi experimental research designs and ethics in program evaluation Decision points that

shape a researchers approach to data analysis are examined in Part 4 when and why analysts need to account for how the sample was selected how to evaluate tradeoffs of hypothesis testing vs estimation and how to handle missing data Ethical issues that arise when using techniques such as factor analysis or multilevel modeling and when making causal inferences are also explored The book concludes with ethical aspects of reporting meta analyses of cross disciplinary statistical reform and of the publication process This Handbook appeals to researchers and practitioners in psychology human development family studies health education sociology social work political science and business marketing This book is also a valuable supplement for quantitative methods courses required of all graduate students in these fields

Total Survey Error in Practice Paul P. Biemer, Edith D. de Leeuw, Stephanie Eckman, Brad Edwards, Frauke Kreuter, Lars E. Lyberg, N. Clyde Tucker, Brady T. West, 2017-02-21 Featuring a timely presentation of total survey error TSE this edited volume introduces valuable tools for understanding and improving survey data quality in the context of evolving large scale data sets This book provides an overview of the TSE framework and current TSE research as related to survey design data collection estimation and analysis It recognizes that survey data affects many public policy and business decisions and thus focuses on the framework for understanding and improving survey data quality The book also addresses issues with data quality in official statistics and in social opinion and market research as these fields continue to evolve leading to larger and messier data sets This perspective challenges survey organizations to find ways to collect and process data more efficiently without sacrificing quality The volume consists of the most up to date research and reporting from over 70 contributors representing the best academics and researchers from a range of fields The chapters are broken out into five main sections The Concept of TSE and the TSE Paradigm Implications for Survey Design Data Collection and Data Processing Applications Evaluation and Improvement and Estimation and Analysis Each chapter introduces and examines multiple error sources such as sampling error measurement error and nonresponse error which often offer the greatest risks to data quality while also encouraging readers not to lose sight of the less commonly studied error sources such as coverage error processing error and specification error The book also notes the relationships between errors and the ways in which efforts to reduce one type can increase another resulting in an estimate with larger total error This book Features various error sources and the complex relationships between them in 25 high quality chapters on the most up to date research in the field of TSE Provides comprehensive reviews of the literature on error sources as well as data collection approaches and estimation methods to reduce their effects Presents examples of recent international events that demonstrate the effects of data error the importance of survey data quality and the real world issues that arise from these errors Spans the four pillars of the total survey error paradigm design data collection evaluation and analysis to address key data quality issues in official statistics and survey research Total Survey Error in Practice is a reference for survey researchers and data scientists in research areas that include social science public opinion public policy and business It can also be used as a textbook or supplementary

material for a graduate level course in survey research methods Educational and Psychological Measurement W. Holmes Finch, Brian F. French, 2018-10-12 This new text provides the most current coverage of measurement and psychometrics in a single volume Authors W Holmes Finch and Brian F French first review the basics of psychometrics and measurement before moving on to more complex topics such as equating and scaling item response theory standard setting and computer adaptive testing Also included are discussions of cutting edge topics utilized by practitioners in the field such as automated test development game based assessment and automated test scoring This book is ideal for use as a primary text for graduate level psychometrics measurement courses as well as for researchers in need of a broad resource for understanding test theory Features How it Works and Psychometrics in the Real World boxes break down important concepts through worked examples and show how theory can be applied to practice End of chapter exercises allow students to test their comprehension of the material while suggested readings and website links provide resources for further investigation A collection of free online resources include the full output from R SPSS and Excel for each of the analyses conducted in the book as well as additional exercises sample homework assignments answer keys and PowerPoint lecture slides **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

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