

TEST ITEM BIAS

STEVEN J. OSTERLIND

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30

Test Item Bias

Frederic M. Lord



Test Item Bias:

Methods for Identifying Biased Test Items Gregory Camilli, Lorrie A. Shepard, 1994-04-06 This book is highly recommended for all involved in test development or who have any interest in the use of tests in education or in other fields. The necessary mathematics are presented clearly but never obscure the important messages in the book. It will certainly be referred to constantly in my future work in this area. Educational Research. The fundamental goal of the Measurement Methods for the Social Sciences series is to make complex measurement concepts, topics, and methods available to readers with limited mathematical background but a strong desire to understand as well as use methods that are on the forefront of social science assessment. With this book on item bias detection methods, Gregory Camilli and Lorrie Shepard have achieved this goal admirably. From the Foreword by Richard M. Jaeger: What can item bias methods do and not do when applied to real test data? Aimed at helping researchers understand how item bias methods work, this book provides practical advice and specific details on the most useful methods for particular testing situations. Beginning with a review of early bias methods and the fairness issues associated with the topic of test bias, the authors explain the logic of each method in terms of how differential item functioning (DIF) is defined by the method and how well the method can be expected to work in various situations. In addition, chapters include a summary of findings regarding the behavior of the various indexes in empirical studies, especially their reliability, correlation with known bias criteria, and correlations with other bias methods. The book concludes with a set of principles for deciding when DIF should be interpreted as evidence of bias.

Handbook of Methods for Detecting Test Bias Ronald A. Berk, 1982 Collects humorous, whimsical, and strange stories that combine unusual subject matter with emotional expression and exhibit a broad diversity of form.

Test Item Bias Steven J. Osterlind, 1983 A unique practical manual for identifying and analyzing item bias in standardized tests. Osterlind discusses five strategies for detecting bias: analysis of variance, transformed item difficulties, chi-square, item characteristic curve, and distractor response. He covers specific hypotheses under test for each technique as well as the capabilities and limitations of each strategy.

A Comparison of Three Methods of Detecting Test Item Bias Linda Gokey Monaco, 1986

Test-item Bias K. Owen, Human Sciences Research Council. Group: Education, 1992

A Study of Test Item Bias in the Measurement of Moral Judgment Development Yong Lin Moon, 1987

Adapting Tests in Linguistic and Cultural Situations Dragoş Iliescu, 2017-11-02 This book explores test adaptation, a scientific and professional activity now spanning all of the social and behavioural sciences. Adapting tests to various linguistic and cultural contexts is a critical process in today's globalized world and requires a combination of knowledge and skills from psychometrics, cross-cultural psychology, and others. This volume provides a step-by-step approach to cross-cultural test adaptation, emphatically presented as a marriage between science and practice. The volume is driven by the first-hand practical experience of the author in a large number of test adaptation projects in various cultures and is supported by the consistent scientific body of knowledge accumulated over the last several

decades on the topic It is the first of its kind an in depth treatise and guide on why and how to adapt a test to a new culture in such a way as to preserve its psychometric value **Differential Item Functioning** Paul W. Holland,Howard Wainer,2012-08-06 Test fairness is a moral imperative for both the makers and the users of tests This book focuses on methods for detecting test items that function differently for different groups of examinees and on using this information to improve tests Of interest to all testing and measurement specialists it examines modern techniques used routinely to insure test fairness Three of these relevant to the book s contents are detailed reviews of test items by subject matter experts and members of the major subgroups in society gender ethnic and linguistic that will be represented in the examinee population comparisons of the predictive validity of the test done separately for each one of the major subgroups of examinees extensive statistical analyses of the relative performance of major subgroups of examinees on individual test items *Developing and Validating Test Items* Thomas M. Haladyna,Michael C. Rodriguez,2013-07-18 Since test items are the building blocks of any test learning how to develop and validate test items has always been critical to the teaching learning process As they grow in importance and use testing programs increasingly supplement the use of selected response multiple choice items with constructed response formats This trend is expected to continue As a result a new item writing book is needed one that provides comprehensive coverage of both types of items and of the validity theory underlying them This book is an outgrowth of the author s previous book *Developing and Validating Multiple Choice Test Items* 3e Haladyna 2004 That book achieved distinction as the leading source of guidance on creating and validating selected response test items Like its predecessor the content of this new book is based on both an extensive review of the literature and on its author s long experience in the testing field It is very timely in this era of burgeoning testing programs especially when these items are delivered in a computer based environment Key features include Comprehensive and Flexible No other book so thoroughly covers the field of test item development and its various applications Focus on Validity Validity the most important consideration in testing is stressed throughout and is based on the Standards for Educational and Psychological Testing currently under revision by AERA APA and NCME Illustrative Examples The book presents various selected and constructed response formats and uses many examples to illustrate correct and incorrect ways of writing items Strategies for training item writers and developing large numbers of items using algorithms and other item generating methods are also presented Based on Theory and Research A comprehensive review and synthesis of existing research runs throughout the book and complements the expertise of its authors *A Comparison of Two Methods for Detecting Test Item Bias* Elaine Kopera,1983 *Global Perspectives on Educational Testing* Keena Arbuthnot,2017-11-01 This book provides a refined definition of standardized educational test fairness that can be utilized in multiple contexts to better understand the experiences and perspectives of diverse groups of test takers *Sex and Race Differences on Standardized Tests* United States. Congress. House. Committee on the Judiciary. Subcommittee on Civil and Constitutional Rights,1989 **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 sea 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

Defending Standardized Testing Richard Phelps,2005-03-23 Although much has been written on standardized testing policy most of the material has been written by opponents The contributing authors of this volume are both accomplished researchers and practitioners who are respected and admired worldwide They b

Applications of Item Response Theory to Practical Testing Problems Frederic M. Lord,1980 First Published in 1980 Routledge is an imprint of Taylor Francis an informa company

Applications of Item Response Theory To Practical Testing Problems F. M. Lord,2012-11-12 Published in 1980 Applications of Item Response Theory To Practical Testing Problems is a valuable contribution to the field of Education

Arthur Jensen: Consensus And Controversy Sohan Modgil,Celia Modgil,2005-11-04 First Published in 1987 Routledge is an imprint of Taylor Francis an informa company

Essentials of Psychological Testing Susana Urbina,2011-01-13 An excellent primer on the key concepts of psychometrics Essentials of Psychological Testing surveys the basic principles of psychometrics supplies the information needed to understand and evaluate tests and introduces readers to the major contemporary reference works in the field It is the only book to provide such a thorough and up to date overview of psychometrics in an engaging accessible format As part of the Essentials of Behavioral Science series this book offers an overview of the most relevant psychometric concepts and techniques that provides the foundation necessary for knowledgeable informed practice Each concise chapter features numerous callout boxes highlighting key concepts bulleted points and extensive illustrative material as well as Test Yourself questions that help to gauge and reinforce readers grasp of the information covered Starting with a basic introduction to psychological tests their historical development and their uses Essentials of Psychological Testing also covers the statistical

procedures most frequently used in testing the frames of reference for score interpretation reliability validity and test item considerations as well as guidelines for test selection administration scoring and reporting test results Whether as an orientation for those new to the field a refresher for those already acquainted with it or as a reference for seasoned clinicians Essentials of Psychological Testing is an invaluable resource on the fundamentals of this evolving area of practice

Adapting Educational and Psychological Tests for Cross-Cultural Assessment Ronald K. Hambleton, Peter F. Merenda, Charles D. Spielberger, 2004-12-13 Adapting Educational and Psychological Tests for Cross Cultural Assessment critically examines and advances new methods and practices for adapting tests for cross cultural assessment and research The International Test Commission ITC guidelines for test adaptation and conceptual and methodological issues in test adaptation are described in detail and questions of ethics and concern for validity of test scores in cross cultural contexts are carefully examined Advances in test translation and adaptation methodology including statistical identification of flawed test items establishing equivalence of different language versions of a test and methodologies for comparing tests in multiple languages are reviewed and evaluated The book also focuses on adapting ability achievement and personality tests for cross cultural assessment in educational industrial and clinical settings This book furthers the ITC's mission of stimulating research on timely topics associated with assessment It provides an excellent resource for courses in psychometric methods test construction and educational and or psychological assessment testing and measurement Written by internationally known scholars in psychometric methods and cross cultural psychology the collection of chapters should also provide essential information for educators and psychologists involved in cross cultural assessment as well as students aspiring to such careers

Encyclopedia of Psychological Assessment Rocio Fernandez-Ballesteros, 2002-12-20 once you let a clinical psychologist lay hands on this book it is quite difficult to get it back again Martin Guha Librarian Institute of Psychiatry London The Encyclopedia of Psychological Assessment is a landmark reference work and constitutes a definitive resource for academics practitioners and students working in any field of applied psychological science Psychological assessment is a key component of psychological work Devices of scientific assessment are necessary for adequate describing diagnosis predicting explaining or changing the behaviour of all subjects under examination This double volume collection offers complete coverage to facilitate action in each of these areas and will consequently be invaluable to psychologists in any applied setting The two volumes of the Encyclopedia of Psychological Assessment contain a series of 235 entries organized alphabetically and covering a variety of fields Each entry includes a general conceptual and methodological overview a section on relevant assessment devices followed by links to related concepts in the Encyclopedia and a list of references The Encyclopedia of Psychological Assessment provides A comprehensive network for psychological assessment as a conceptual and methodological discipline and as a professional activity An overview of the complexity of assessment which involves not only testing but also a process of decision making for answering relevant questions that arise in the

different applied fields A presentation of relevant issues from basic theory theoretical perspectives ethics and methodology validity reliability item response theory to technology and modes of assessment tests instruments and equipment for measuring behavioral operations An attempt to unify this diverse field by offering full coverage of all areas from the most traditional such as clinical educational and work and organizational psychology to the most recent applications linked to health gerontology neuropsychology psychophysiology and environmental assessment The Encyclopedia of Psychological Assessment offers a truly international perspective both in terms of the selected authors and chosen entries It aims to provide an integrated view of assessment bringing together knowledge dispersed throughout several methodological and applied fields but united in terms of its relevance for assessment It is an essential purchase for any library with an existing collection or concern with the field of psychological science in general

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Table of Contents Test Item Bias

1. Understanding the eBook Test Item Bias
 - The Rise of Digital Reading Test Item Bias
 - Advantages of eBooks Over Traditional Books
2. Identifying Test Item Bias
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Test Item Bias
 - User-Friendly Interface
4. Exploring eBook Recommendations from Test Item Bias
 - Personalized Recommendations
 - Test Item Bias User Reviews and Ratings
 - Test Item Bias and Bestseller Lists
5. Accessing Test Item Bias Free and Paid eBooks
 - Test Item Bias Public Domain eBooks
 - Test Item Bias eBook Subscription Services
 - Test Item Bias Budget-Friendly Options
6. Navigating Test Item Bias eBook Formats

- ePub, PDF, MOBI, and More
- Test Item Bias Compatibility with Devices
- Test Item Bias Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Test Item Bias
 - Highlighting and Note-Taking Test Item Bias
 - Interactive Elements Test Item Bias
- 8. Staying Engaged with Test Item Bias
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Test Item Bias
- 9. Balancing eBooks and Physical Books Test Item Bias
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Test Item Bias
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Test Item Bias
 - Setting Reading Goals Test Item Bias
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Test Item Bias
 - Fact-Checking eBook Content of Test Item Bias
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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