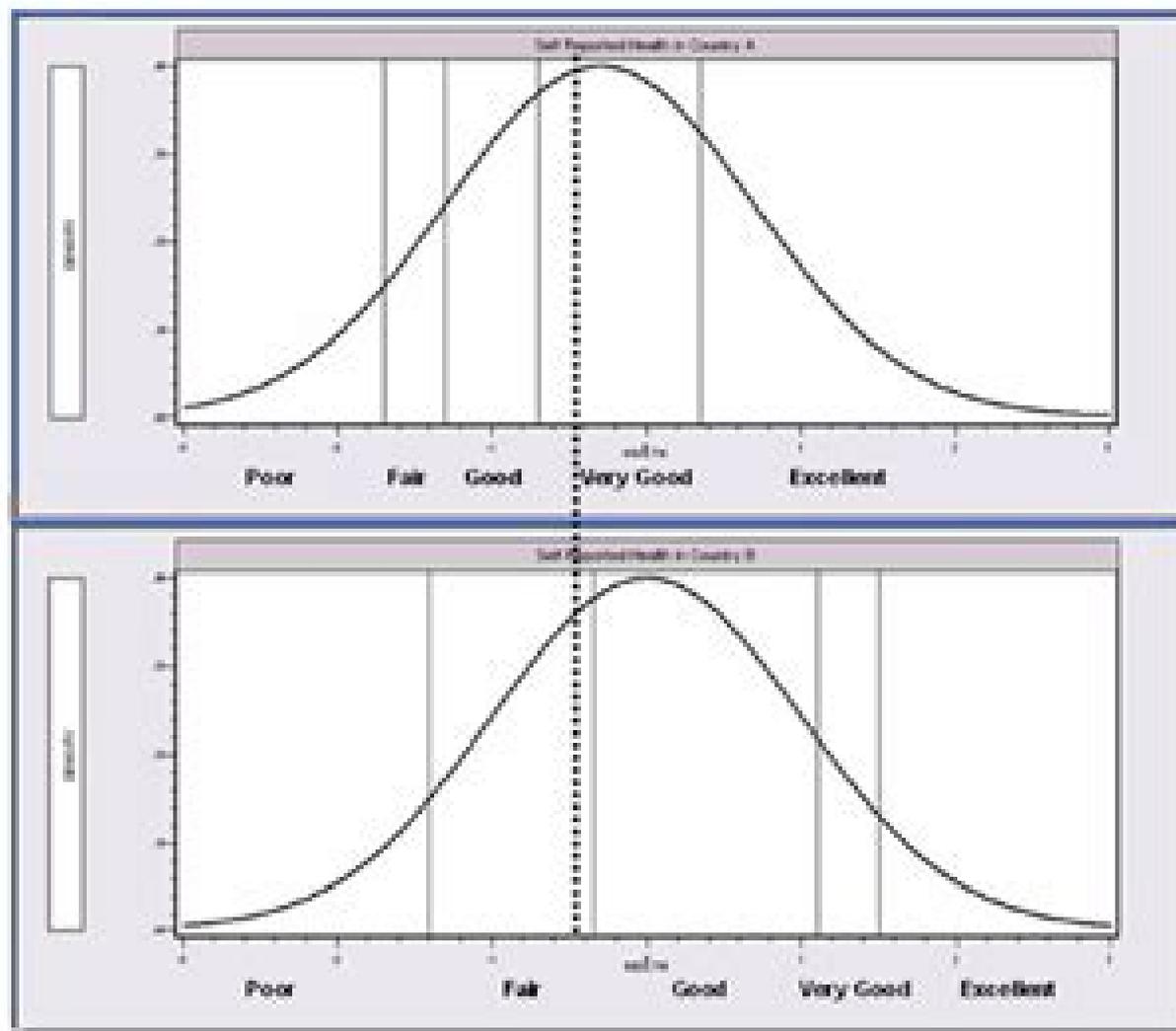
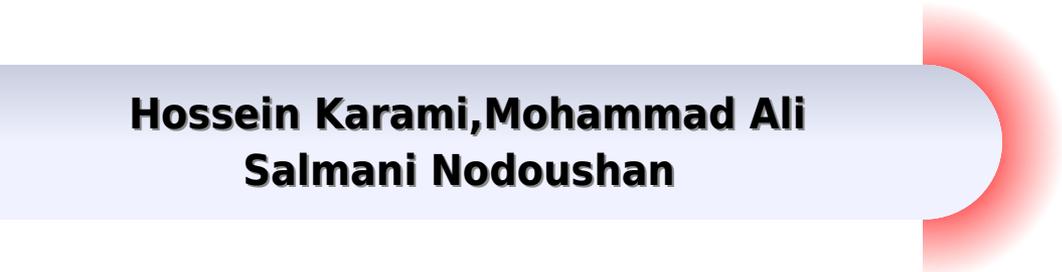


Differential Item Functioning



Differential Item Functioning

**Hossein Karami, Mohammad Ali
Salmani Nodoushan**



Differential Item Functioning:

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

Differential Item Functioning (DIF) Hossein Karami, Mohammad Ali Salmani Nodoushan, 2011 With the rising concerns over the fairness of language tests Differential Item Functioning DIF has been increasingly applied in bias analysis Despite its widespread use in psychometric circles DIF is facing a number of serious problems This paper is an attempt to shed light on a number of the issues involved in DIF analysis Specifically the paper is focused on four problems a the inter method indeterminacy b the intra method indeterminacy c the ad hoc interpretations and d the impact of DIF on validity In order to orient the reader the paper also provides a brief introduction to the fundamental concepts in DIF analysis

Detecting Differential Item Functioning Nabeel Abedalaziz, 2015-12-03 The purpose of this book is to provide a perspective and foundation for DIF a review DIF approaches Further DIF methods classified into two categories IRT methods and non IRT methods respectively For the former the estimation of an IRT model is required and a statistical testing procedure is followed based on the asymptotic properties of statistics derived from the estimation results For the latter the detection of DIF items is usually based on statistical methods for categorical data with the total test score as a matching criterion Item Response Theory IRT techniques provide a powerful means of testing items for bias using what is known as differential item functioning DIF analysis In contrast Classical Test Theory CTT based methods of assessing bias are fundamentally limited especially approaches that base their assessment of bias on the presence of group mean differences in total tests scores across demographic groups This book provides different studies to detect a gender related DIF in mathematics

Assessing Differential Item Functioning in Performance Tests Rebecca Zwick, 1993

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 *Differential Item Functioning* Steven J. Osterlind, Howard T. Everson, 2009-09-30 This new edition presents an up to date description of differential item functioning It describes varying procedures for addressing DIF in practical testing contexts The authors present useful examples and studies of DIF that readers may employ as a guide in their own work They also cover major statistical packages that can be employed in DIF analysis e g SPSS SAS M Minitab and Systat This text is ideal for the measurement professional or advanced student who deals with educational or psychological assessment

A Comparison of Three Methods for Detecting Differential Item Functioning Pierre Jacques, 1991 **A comparison of four differential item functioning (DIF) methods for polytomously scored items** Lynn Trent Mellor, 1995 *Differential Item Functioning* David Johan Hessen, 2003

Differential Item Functioning Paul W. Wainer, Holland (Howard), 1993 *Unexpected Direction of Differential Item Functioning* Sangwook Park, 2011 ABSTRACT Many studies have been conducted to evaluate the performance of DIF detection methods when two groups have different ability distributions Such studies typically have demonstrated factors that are associated with inflation of Type I error rates in DIF detection such as mean ability differences However no study has examined how the direction of DIF is affected by the factors that inflate the Type I error rate Therefore this study investigated the possibility that the direction of DIF is systematically detected in an unexpected way which may result in unexpected detection of DIF advantaging lower ability groups on difficult items An extensive simulation was conducted to evaluate whether DIF in unexpected directions was observed systematically under the logistic regression approach to DIF detection Four factors were considered in this study 1 means of ability distributions 2 standard deviations of ability distributions 3 sample sizes and 4 the magnitude of the pseudo guessing parameters Three levels were considered for the ability means and two levels were considered for the ability standard deviations Three levels were examined for sample sizes and guessing parameters As a result 54 3 x 2 x 3 x 3 simulation conditions were considered In addition items were grouped into five groups depending on their difficulties very easy easy moderate difficult and very difficult The effects of the four simulation factors were evaluated for each one of the five item difficulty groups For each condition 500 replications were conducted DIF error rates bias SE RMSE the direction of DIF and distributions of the biases were examined to evaluate the effects of the four simulation factors The results revealed that the mean of the ability distribution and the magnitude of the pseudo guessing parameters indeed contributed dramatically to inflation of DIF error rates especially for very easy and very difficult items Moreover the directions of DIF were all negative for very easy items but all positive for very difficult items Finally limitations and practical implications were discussed **Finding Item-Level Causes of Differential Item Functioning** Jennifer A. Brussow, 2018 [Impact of Differential Item Functioning on Statistical Conclusions](#), 2005 Differential item functioning DIF sometimes called item bias has been widely studied in educational and psychological

measurement however to date research has focused on the definitions of and the methods for detecting DIF It is well accepted that the presence of DIF may degrade the validity of a test There is relatively little known however about the impact of DIF on later statistical decisions when one uses the observed test scores in data analyses and corresponding statistical hypothesis tests This dissertation investigated the impact of DIF on later statistical decisions based on the observed total test or scale score Very little is known in the literature about the impact of DIF on the Type I error rate and effect size of for instance the independent samples t test on the observed total test scores Five studies were conducted studies one to three investigated the impact of unidirectional DIF i e DIF amplification on the Type I error rate and effect size of the independent samples t test studies four and five investigated the DIF cancellation effects on the Type I error rate and effect size of the independent samples t test The Type I error rate and effect size were defined in terms of latent population means rather than observed sample means The results showed that the amplification and cancellation effects among uniform DIF items did transfer to the test level Both the Type I error rate and effect size were inflated The degree of inflation depends on the number of DIF items magnitude of DIF sample sizes and interactions among these factors These findings highlight the importance of screening DIF before conducting any further statistical analysis It offers advice to practicing researchers about when and how much the presence of DIF will affect their statistical conclusions based on the total observed test scores

Improving the Prediction of Differential Item Functioning Susan Cromwell Duncan, 2007 Psychometricians and test developers use DIF analysis to determine if there is possible bias in a given test item This study examines the conditions under which two predominant methods for determining differential item function compare with each other in item bias detection using an effect size statistic as the basis for comparison The main focus of the present research was to test whether or not incorporating an effect size for LR DIF will more accurately detect DIF and to compare the utility of an effect size index across MH DIF and LR DIF methods A simulation study was used to compare the accuracy of MH DIF and LR DIF methods using a p value or supplemented with an effect size Effect sizes were found to increase the accuracy of DIF and the possibility of the detection of DIF across varying ability distributions population distributions and sample size combinations Varying ability distributions and sample size combinations affected the detection of DIF while population distributions did not seem to affect the detection of DIF *The Effect of Differential Item Functioning on Population Invariance of Item Response Theory True Score Equating* Anne C Huggins, 2012 Population invariance in equating exists when the relationship between two scales is the same for two or more subpopulations of examinees and hence the function used to equate the scales is not dependent on subpopulations A lack of equating invariance i e equating dependence leads to a situation whereby examinees having the same score on one scale but belonging to different subpopulations have different expected test scores on the corresponding equated scale This situation results in an expected advantage for one or more subpopulations of examinees and hence is a concern for fairness in assessment and disaggregated accountability Little is known about the causes of

equating dependence and the purpose of this study is to locate a source of this problem. It is hypothesized that differential item functioning manifested in the anchor items of an assessment will have an effect on population invariance of equating. Findings show that when differential item functioning varies across forms in a differential manner across subpopulations, population invariance of equating can be compromised. Under these conditions, an increase in equating dependence is associated with increases in magnitudes of the differential item functioning and to a lesser degree, increases in the frequency of anchor items with differential item functioning. These effects can be problematic in conditions of both unidirectional and bidirectional differential item functioning and can pose problems for subpopulations that have equal or different mean ability levels.

The Effect of the Probability of Correct Response on the Variability of Measures of Differential Item Functioning Rebecca Zwick, 1994 *An Empirical Study of the Consistency of Differential Item Functioning Detection*

Paulette C. Brown, 1992 The purpose of this study was to investigate how well the Mantel-Haenszel (MH) and logistic regression (LR) procedures perform in the identification of items that function differentially across gender groups and regional groups. Research questions to be answered by this study were concerned with three issues: 1) the detection rates for DIF items and items which did not exhibit DIF; 2) the agreement for the MH and LR methods in the detection of DIF items; and 3) the effectiveness of these indices across sample size and over replications. Abstract shortened by UMI [Using Differential Item Functioning Analysis to Determine Differential Interpretations of Survey Questions](#) Pamela Jane Brown, 1996 The application of Differential Item Functioning (DIF) analysis to noncognitive areas such as psychological and attitudinal measurement is a natural extension of the current research and is the focus of this study. This study uses DIF analyses to examine differential item functioning of Likert response items formatted from survey instruments. Data for this study were drawn from the responses of 22,651 parents of eighth grade students on 26 questions from the National Educational Longitudinal Survey of 1988. National Center for Education Statistics, 1990. A differential item functioning analysis of these 26 questions was conducted to determine if different groups of parents interpreted the survey questions differently. To detect DIF in this survey, logit models were utilized. Total score for each substantive area was employed as the conditioning variable. The study revealed that DIF analyses can be conducted with noncognitive instruments using multiple factors simultaneously to yield important information about the questions. In this survey, several of the questions were functioning differently for different groups of parents based on their race or whether their child attended a city school. For a few questions, the interaction term between race and urbanicity was significant in the model, thus providing more insight into understanding DIF. The focus of this study was to exemplify three points: a) that instruments other than cognitive tests can exhibit DIF; b) that interaction terms are important to include when testing models; and c) that studying groups defined on characteristics not commonly used in current DIF studies can provide better insight into DIF. Survey instruments are a commonly used tool in evaluations and other studies to gather information regarding opinions and attitudes from large groups of people. Because the responses from

surveys are often reported in an aggregate form it is often the case that the survey questions are being summarized uniformly for the entire sample An assumption is made in most cases that the survey questions are being interpreted consistently across the population of respondents One method of verifying this assumption is to utilize differential item functioning analysis This study demonstrates the utility of DIF for this purpose

Differential Item Functioning in Performance Assessments Hae-Seong Park,1995

Differential Item Functioning in Multiple Choice Items Paul Westers,Henk Kelderman,Universiteit Twente. Department of Education,Universiteit Twente. Division of Educational Measurement,1990

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Differential Item Functioning Introduction

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