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An Analytical Evaluation of Two Common-odds Ratios as Population Indicators of DIF Mary Pommerich,1995

Describing and categorizing DIF in polytomous items Rebecca Zwick,Dorothy T. Thayer,John Mazzeo,1997

Using the Multivariate Multilevel Logistic Regression Model to Detect DIF Tianshu Pan,2008

A Comparative Study of DIF Statistics and Purification Procedures for Detecting Differential Item Functioning Nohoon Kwak,1998

Differential Item Functioning Paul W. Holland,Howard Wainer,Educational Testing Service,1993 First Published in 1993. Routledge is an imprint of Taylor & Francis, an informa company.

Influence of DIF on the Susceptibility of Floral Crops to Botrytis Cinerea Patricia Marie Pritchard,1995

DIF analysis for pretest items in computer-adaptive testing Rebecca Zwick,Dorothy T. Thayer,Marilyn S. Wingersky,Educational Testing Service,1994

How to Love Dif-Can St. Martins Mass Mark Staff,1988-02-01

Mathematics Education from an Asian Perspective (Penerbit USM) Lim Chap Sam,Chew Cheng Meng,Sriraman Bharath,2020 This book presents an exceptional collection of 11 articles on contemporary research studies that address current and critical issues of researches, theories and practices in the fields of mathematics education at various levels from primary to tertiary education. In addition, the book covers various innovative research studies from both local and abroad such as cognitive diagnostic assessment (CDA) and assessment for learning (AfL), teaching and learning of mathematics using the dynamic geometry software (DGS), action-process-object-schema (APOS) theory and relationship mapping and inverse (RMI) principle, as well as mathematics lesson structure (MLS) and collaborative lesson research (CLR). The contents of this book should be of interest to both national and international researchers and scholars, particularly mathematics educators, mathematics education researchers, teacher trainers, university students, teachers, curriculum planners, as well as policymakers.

Nuttall's Standard Dictionary of the English Language P. Austin Nuttall,1914

Differential Item Functioning (DIF) Analysis of the Verbal Section of the 2003 Student Selection Examination (SSE) Mustafa Asil,2005 Abstract: The purpose of this study is to investigate differential item functioning (DIF) in the 2003 Student Selection Examination (SSE) in Turkey by employing the Mantel-Haenszel procedure. DIF analysis has been carried out across gender groups to examine two major issues: detecting the items that show male/female related DIF after matching the examinees on total subtest scores, and investigating the relationship between DIF values and item characteristics which are item difficulty and item discrimination index. The data were obtained from the 2003 Student Selection Examination (SSE) test. The sample consists of 2000 examinees who took this test. The subjects were grouped according to their gender. The Mantel-Haenszel technique was used as the DIF detection method. Dimensionality of the Turkish and Social Science subtests was investigated after assessing the validity and reliability of these subtests. Finally, item difficulty and discrimination values were computed for each item and were compared with DIF values labeled as A, B, and C. The results of the present study indicated that four large DIF values (C) were detected in the Turkish language subtest, and one in Social Science subtest. Overall, the Turkish subtest items favored females more than males, whereas the Social Science items did not either group. Although many items were detected as showing DIF in the Social Science subtest, the total effect of DIF diminished in this subtest. Finally, the results indicated that there was a significant relationship between item difficulty and DIF for both subtests and also between item discrimination and DIF for the Turkish subtest only.

Identifying Nonuniform DIF in Polytomously Scored Test Items Judith A. Spray,1994

Using Differential Item Functioning (DIF) Procedures for Investigating the Cross Cultural Equivalence of Personality Tests Wonsook Julie Sohn,2001

The International Encyclopaedic Dictionary ... ,1901

Investigating the Instructional Sensitivity of Distractors in Items Exhibiting DIF John Andrew Evans,1996 When examinees from identifiable subgroups have comparable ability but different probabilities of correctly responding to an item, the item is said to exhibit differential item functioning (DIF). If the amount of DIF is practically significant, and attributable to features that are irrelevant to the test construct, the item may bias the ability estimates of some group of examinees. The presence of DIF is a necessary but not a sufficient condition for item bias. The simple conclusion of bias (i.e., observing a larger than expected proportion of examinees from a selected group responding incorrectly to a given item) fails to identify the component(s) of the item that are irrelevant to the examination. Recognizing the need to identify the plausible item feature(s) to substantively explain DIF, this analysis coupled established and reliable, dimensionally sensitive IRT procedures, with log-linear modeling to provide additional practical interpretation of the dimensionality of an item and its distractors. The purpose of this research is to propose an empirical methodology for identifying items that have a potential to impair the validity of a single unidimensional) construct measure. The purposed methodology is an out growth of the multidimensional DIF paradigm of Shealy and Stout (1993a). The use of statistical multidimensional assessment procedures to assist in the DIF detection process was proposed by Douglas, Roussos, and Stout (1995). This work specifically considers the relationship between relevant (i.e., an examinee's ability and opportunity to learn) and non-relevant (i.e., race) examinee characteristics and their interaction with item option selection. This methodology utilized both item response theory (IRT) techniques and hierarchical log-linear analysis. This combination of techniques presents the practitioner with methodology to evaluate the validity of an item in order to ascertain inclusion or rejection of the item from the exam as a whole.

Graphical IRT-based DIF Analyses Peter J. Pashley,1992

The Performance of the Mantel-Haenszel and Logistic Regression DIF Identification Procedures with Real Data Fang Tian,1994 The purpose of this study is to examine the consistency of the MH and LR procedures and their agreement in the identification of DIF across sample size and criterion when using real examinee data. (Abstract shortened by UMI.).

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