

Differential Item Functioning

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Differential Item Functioning

Differential item functioning (DIF) is a statistical characteristic of an item that shows the extent to which the item might be measuring different abilities for members of separate subgroups. Average item scores for subgroups having the same overall score on the test are compared to determine whether the item is measuring in essentially the same way for all subgroups.

Differential item functioning - Wikipedia

Differential Item Functioning Overview. In brief, differential item functioning (DIF) occurs when groups (such as defined by gender, ethnicity, age,... Description. Benign vs. Adverse DIF An important distinction is between "benign" and "adverse" DIF (Breslau et al.,... Readings. Holland, P. W., & ...

Differential Item Functioning | Columbia Public Health

In Differential Item Functioning (eds. Holland & Wainer, 1993), Angoff explains that DIF is occurring when an item displays different statistical properties between groups after those groups have been matched on a measure of proficiency. To put it another way, we need to first account for differences in the groups' abilities, and then see if there are still differences in the item performance.

Item Analysis - Differential Item Functioning (DIF ...

Features 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.

Differential Item Functioning | SAGE Publications Inc

Differential item functioning (DIF) is the preferred psychometric term for what is otherwise known as item bias. An item displays DIF when test takers possessing the same amount of an ability or trait, but belonging to different subgroups, do not share the same likelihood of correctly answering the item.

Differential Item Functioning - IResearchNet

Differential Item Functioning (DIF) investigates the items in a test, one at a time, for signs of interactions with sample characteristics. In the widely used Mantel-Haenszel procedure (1959, www.rasch.org/memo39.pdf, RMT 1989 3:2 51-53), reference and focal groups are identified which differ in a discernible way.

Differential Item Functioning and Differential Test ...

Differential Item Functioning (DIF) in psychometric tests has long been recognized as a potential source of bias in person measurement. Originally called 'item bias' (Lord, 1980), the analysis of DIF is concerned with identifying significant differences, across group membership, of the proportion of individuals at the same apparent ability level who answer a given item correctly (or can do a particular task).

DIF matters: A practical approach to test if Differential ...

Differential Item Functioning (DIF) occurs when two groups of equal ability levels are not equally able to correctly answer an item. In other words, one group does not have an equal chance of...

(PDF) An Introduction to Differential Item Functioning

Differential item functioning (sometimes called item bias) occurs when, at the same level of the underlying construct, responses differ significantly by group membership. If several items in a subscale demonstrate differential item functioning, this may adversely affect the conclusions of between-group comparisons by creating a false difference or failing to detect a true difference.

Differential Item Functioning in Primary Healthcare ...

Differential Item Functioning (DIF) has been increasingly applied in fairness studies in psychometric circles. Judicious application of this methodology by the researchers, however, requires an understanding of the technical complexities involved.

(PDF) An introduction to Differential Item Functioning ...

It is called differential item functioning (DIF) that the item characteristics vary across groups. The plots excerpted from Lee et al. (2015) illustrate the item characteristic curves for the young and old groups.

Differential item functioning - Go Philosophy

Differential Item Functioning (DIF) occurs whenever people of the same ability level but from different groups have differential probabilities of endorsing an item (Kamata & Vaughn, 2004). If the factor bringing about such a difference is not part of the construct of focus in the test, then the test would be biased.

Differential Item Functioning: current problems and future ...

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.

Differential Item Functioning: Holland, Paul W., Wainer ...

Introduction: We present an ordinal logistic regression model for identification of items with differential item functioning (DIF) and apply this model to a Mini-Mental State Examination (MMSE) dataset. We employ item response theory ability estimation in our models. Three nested ordinal logistic regression models are applied to each item.

Differential item functioning analysis with ordinal ...

A multidimensional model of differential item functioning (DIF) developed by Shealy and Stout is presented. It explains how individual items combine to produce differential test functioning (DTF)...

(PDF) Differential item functioning: Its multidimensional ...

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.

Differential Item Functioning by Steven J. Osterlind

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.

Differential Item Functioning - 1st Edition - Paul W ...

Differential item functioning (DIF) is an important issue of interest in psychometrics and educational measurement. Several methods have been proposed in recent decades for identifying items that function differently between two or more groups of examinees.

A general framework and an R package for the detection of ...

Read "Differential Item Functioning" by available from Rakuten Kobo. Test fairness is a moral imperative for both the makers and the users of tests. This book focuses on methods for detecti...

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