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Jue Wang introduce Rasch measurement

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theory step by step, with chapters on scale construction, evaluation, maintenance, and use. Points are illustrated and techniques are demonstrated through an extended example: The Food Insecurity Experience (FIE) Scale. The Rasch analyses in the book are run using the Facets computer program.

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The Rasch model for measurement. In the Rasch model, the probability of a specified response (e.g. right/wrong answer) is modeled as a function of person and item parameters. Specifically, in the original Rasch model,

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the probability of a correct response is modeled as a logistic function of the difference between the person and item parameter. The mathematical form of the model is provided later in this article.

Rasch model - Wikipedia

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Organization developed the FIE Scale to quantitatively measure the severity of food insecurity. We discussed the advantages of using a multilevel explanatory...

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Rasch model is a psychometric model,
developed by George Rasch, employed
to measure traits like attitudes and uses

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logarithmic functions to produce an
equal interval scale (logit) [21]. Using
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of schooling is constructed. The Rasch
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and polytomous items is used to

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establish such a scale. By application of the Rasch model to the items of this program, three types of polytomous items in which integer scores of 0,1,2,..m are assigned for increasing levels of performance on the item are identified.

A typology of polytomously scored

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The Rasch model uses fit statistics and graphical inspection to indicate whether a set of items can be considered to comprise a unidimensional

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measurement scale with equal-interval level properties, and whether scale scores remain invariant across different groups.

Scale construction utilising the Rasch unidimensional ...

In this digital ITEMS module, Dr. Jue Wang and Dr. George Engelhard Jr.

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describe the Rasch measurement framework for the construction and evaluation of new measures and scales. From a theoretical perspective, they discuss the historical and philosophical perspectives on measurement with a focus on Rasch's concept of specific objectivity and invariant measurement.

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models to reduce information contained in measurements made in the social, behavioral and health sciences into consistent quantitative measures which are in turn amenable to more classic statistical analysis.

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The Rasch rating scale model was used to investigate item statistics and ordering of items, item and person reliability, and model performance of the Modified Falls Efficacy Scale. The Modified Falls Efficacy Scale, for English- and Spanish-speakers, demonstrated acceptable fit to the Rasch model of a unidimensional measure.

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