IRT Final Exam Review

Joe Marr

November 13, 2018

Lecture 1

The big picture is that Item Response Theory (IRM), also called Item Response Modeling (IRM), is mainly concerned with the relationship between the probability of a response and the underlying latent dimension.

$$P = P(\theta) \tag{1}$$

This methodology models the Item Characteristics Curve (ICC).

IRT deals with 4 things:

1. **Postulating Models** that describe the relationship between the probability of response and θ.

2. **Estimating** these models using an available data set.

3. **Evaluating Model Fit** and determining which model to select.

4. **Estimating Individual θs** based on the model fit for the correct dimensions.