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Title: Local Dependence in IRT Modeling

Abstract:

Local dependence is one of the assumptions for Item Response Theory (IRT) models. It entails both local item independence and local person independence. This presentation lays out several causes for local item dependence (LID) and local person dependence (LPD) in large-scale educational assessments. It further demonstrates two perspectives of studying LID and LPD based on observed and latent grouping variables and possible modeling approaches. This presentation ends with a study on modeling LID and LPD simultaneously.