

2017-2018 Seminar Series

The Need for Guidelines and Standards for the Use and Development of STEM Concept Inventories



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11:15pm–12:10pm
Gleason 9-1129

All are welcome to attend!

Abstract: In 2014, the American Educational Research Association (AERA), the American Psychological Association (APA) and the National Council on Measurement in Education (NCME) released an updated version of their book Standards for Educational and Psychological Testing (SEPT). These standards provide guidance for both test developers and users based on the latest advances in psychometrics. While many of the standards proposed in SEPT are applicable to the development and use of concept inventories, they do not go far enough to cover the unique issues related to the distractor-driven nature of concept inventories. In this talk, I will provide an overview of the current state of STEM concept inventory development, followed by a discussion of how the distractor-driven nature of concept inventories affect both their development and use, and finally I will present a proposal for the development of guidelines and standards specifically for STEM concept inventories developers and users.

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