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Surveys assessing students' attitudes toward statistics: a systematic review of validity and reliability.

Stat. Educ. Res. J. 11, No. 2, 103-123, electronic only (2012).

Summary: Students with positive attitudes toward statistics are likely to show strong academic performance in statistics courses. Multiple surveys measuring students' attitudes toward statistics exist; however, a comparison of the validity and reliability of interpretations based on their scores is needed. A systematic review of relevant electronic databases yielded 532 citations, 78 of which were reviewed, and 35 included in a final analysis. Fifteen instruments were identified; however, evidence of validity and reliability has only accumulated for the Statistics attitude scale, Attitudes toward statistics scale, and Survey of attitudes toward statistics (two versions). In conclusion, a number of surveys exist, but there is a paucity of peer-reviewed validity and reliability evidence.

Classification: C25 K45 K75 D20

Keywords: statistics education research; statistics attitudes
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