



Reviews

Summary of reviewers notes and ratings on criteria.

Evolution of Statistical Software and Quantitative Methods in Educational Research

Sub Unit: SIG-Educational Statisticians

Review Worksheet

(3/3)

Review #1418451

Criteria	Rate
Objectives or purposes	4 / 5
Perspective(s) or theoretical framework	4 / 5
Methods, techniques, or modes of inquiry	4 / 5
Data sources, evidence, objects or materials	4 / 5
Results and/or substantiated conclusions or warrants for arguments/point of view	4 / 5
Scientific or scholarly significance of the study or work	4 / 5
Comments to the Author/Submitter	
<p>The use of research synthesis methods (Cooper, 2016) to explore trends regarding statistical software usage over time in published educational research journals is an important topic for educational statisticians and researchers. Knowing the results of the investigation will support the use and teaching of software that is most reported on in published research. The procedures for collecting the data should produce the results that are desired except for the keywords for statistical models listed in Table 1. There are many articles that employ ANCOVA, MANOVA, MANCOVA, and the various t tests (independent-samples, dependent-samples, and one-sample t tests). Will the keywords listed in Table 1 find these statistical methods?</p>	

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Criteria	Rate
Objectives or purposes	3 / 5
Perspective(s) or theoretical framework	3 / 5
Methods, techniques, or modes of inquiry	3 / 5
Data sources, evidence, objects or materials	2 / 5
Results and/or substantiated conclusions or warrants for arguments/point of view	3 / 5
Scientific or scholarly significance of the study or work	3 / 5

Comments to the Author/Submitter

I am surprised that R is no more commonly used, though it may be due to the journals selected in the preliminary results. I would highly recommend to the authors to also include more measurement and statistics focused journals in education, e.g., Educational and Psychological Measurement, Journal of Educational Measurement, Journal of Educational and Behavioral Statistics, and Applied Psychological Measurement. I believe these are also key journals in the current state of educational research and should be included in a study such as this. Still, the objectives of the study are very intriguing. I especially like the graphics included.

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Criteria	Rate
Objectives or purposes	3 / 5
Perspective(s) or theoretical framework	3 / 5
Methods, techniques, or modes of inquiry	5 / 5
Data sources, evidence, objects or materials	5 / 5
Results and/or substantiated conclusions or warrants for arguments/point of view	5 / 5
Scientific or scholarly significance of the study or work	3 / 5

Comments to the Author/Submitter

Please describe the procedure for the research significance method before describing the details of the study.

Review Worksheet**(1/1)****Review #1418531**

Criteria	Rate
Objectives or purposes	2 / 5
Perspective(s) or theoretical framework	2 / 5
Methods, techniques, or modes of inquiry	3 / 5
Data sources, evidence, objects or materials	3 / 5
Results and/or substantiated conclusions or warrants for arguments/point of view	2 / 5
Scientific or scholarly significance of the study or work	2 / 5

Comments to the Author/Submitter

A narrowing of your focus is warranted (e.g., focus solely on history of software usage in the Education field or why reproducibility is important and dependent on software). Once your focus is narrowed, update your abstract, objectives, and research questions to reflect this (as it stands, these three components are not aligned). A stronger explanation for the importance of reproducibility is warranted. Further, an explanation for why Cooper's (2016) research synthesis method has been used is needed (i.e., what sets this method apart from others?) and how/why the journals and search terms were selected. A discussion should also be provided to explain the conclusions made from your results and recommendations for future researchers. Finally, your "Scholarly

Significance" section should provide an explanation of the importance of what you've already done, not what you will do.

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