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Investigation of Generalizability Theory Analysis Results with Different Statistical Programs

Atilla Yelboga¹

¹ Measurement and Evaluation Application and Research Center, Ankara University

Email: ayelboga@gmail.com

Country: Turkiye

Consistently accurate measurement is a necessary goal in almost all empirical psychological, educational and behavior science investigations. Most investigators rely solely on classical test theory for assessing reliability, whereas most experts have long recommended using generalizability theory instead. One of the reason why item response theory and G theory are rarely used is the lack of facilities for conducting such analyses in popular statistical software packages. This article discusses generalizability theory analysis to use GENOVA, SPSS and SAS programs using with an illustrative example data. Also discusses programs output includes variance components, relative and absolute errors and generalizability coefficient, coefficients for D studies, and graphs of D study results. The results of GENOVA, SPSS and SAS programs output was found to be similar.