



CB-SEM vs PLS-SEM methods for research in social sciences and technology forecasting

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ABSTRACT

This study compares the two widely used methods of Structural Equation Modeling (SEM): Covariance based Structural Equation Modeling (CB-SEM) and Partial Least Squares based Structural Equation Modeling (PLS-SEM). The first approach is based on covariance, and the second one is based on variance (partial least squares). It further assesses the difference between PLS and Consistent PLS algorithms. To assess the same, empirical data is used. Four hundred sixty-six respondents from India, Saudi Arabia, South Africa, the USA, and few other countries are considered. The structural model is tested with the help of both approaches. Findings indicate that the item loadings are usually higher in PLS-SEM than CB-SEM. The structural relationship is closer to CB-SEM if a consistent PLS algorithm is undertaken in PLS-SEM. It is also found that average variance extracted (AVE) and composite reliability (CR) values are higher in the PLS-SEM method, indicating better construct reliability and validity. CB-SEM is better in providing model fit indices, whereas PLS-SEM fit indices are still evolving. CB-SEM models are better for factor-based models like ours, whereas composite-based models provide excellent outcomes in PLS-SEM. This study contributes to the existing literature significantly by providing an empirical comparison of all the three methods for predictive research domains. The multi-national context makes the study relevant and applicable universally. We call for researchers to revisit the widely used SEM approaches, especially using appropriate SEM methods for factor-based and composite-based models.

1. Introduction

SEM (Structural Equation Modeling) is usually used to explain multiple statistical relationships simultaneously through visualization and model validation. Complex models can be discussed simply through this technique. It is an extension of traditional linear modeling techniques, e.g., multiple regression analysis and Analysis of Variance (ANOVA), prerequisites for learning SEM. Briefly, it can be defined as a combination of factor analyses and multiple regression analyses simultaneously (Sarstedt et al., 2017; Hair Jr et al., 2017a; Haeublein and Kaplan, 2004). SEM aims to understand the relationship between latent constructs (factors) that are generally indicated by various measures. It is also known as latent variable analysis as well as covariance structure analysis. It adopts a confirmatory approach rather than an exploratory one. Some of the unique features of SEM can be summarized as follows: Latent factors are explained through dependence relationships and are typically called constructs (Hooper et al., 2008); It provides a single

complex model that includes various dependence and interdependence relationships among the constructs; The covariance between the observed variables is explained by this method with detailed analysis of various covariance statistics, e.g., mean, standard deviation, etc.; Recently, the PLS approach has become quite popular among researchers due to its variance based relationship rather than covariance (AlNouaimi et al., 2021; Mueller & Hancock, 2018; Hair Jr et al., 2017b; Hayes et al., 2017); It is different from the traditional multivariate techniques that address only individual objectives; It also verifies alternate models to find the most appropriate relationship among the latent variables. It usually deals with a large sample (Mueller & Hancock, 2018; Hair Jr et al., 2017b; Hayes et al., 2017; Ullman & Bentler, 2003).

The purpose of this paper is to compare both approaches based on various parameters and to provide a possible solution to the dilemma. The rest of the paper is structured as follows. Section 2 discusses the scope of the paper, which explains the need for this study, the objectives,

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