

Adaptation and Validation of the the Philosophy of Social Science Inventory (PSSI) in Polish Cultural Context

Thursday 24 July 2025 17:10 (20 minutes)

Poster

Adaptation and Validation of the Philosophy of Social Science Inventory (PSSI) in Polish Cultural Context

Author

Slawomir Pasikowski, Martyna Jarota

Affiliation

University of Lodz

Abstract

Objective:

The aim of this study was to adapt and assess the psychometric properties of the Philosophy of Social Science Inventory (PSSI), originally developed in English (Johnson & Onwuegbuzie, 2004; Sheehan & Johnson, 2012), for the Polish-speaking population.

Method:

The study involved 449 participants (54% women, 46% men, $M = 38.7$ years, $SD = 10.4$), who were instructors in research design and measurement in psychology, education, and sociology. They completed the Polish version of PSSI along with additional tools measuring related constructs, including the Profile of Individual Preferences of an Investigator (PIPB-80; Nosal, 1986) and the Survey of Attitudes Toward Statistics (SATS-36; Schau, 2003).

The adaptation process included back-translation, content validity assessment, and pilot testing. The psychometric properties were examined using factor analysis (EFA, CFA), reliability analysis (Cronbach's α , McDonald's ρ), and validity analysis (convergent and discriminant validity).

Results:

Confirmatory factor analysis (CFA) showed an unsatisfactory model fit for the original structure ($CFI = 0.94$, $TLI = 0.89$, $RMSEA = 0.12$). Exploratory factor analysis (EFA, Oblimin rotation) suggested a two-factor structure ($KMO = 0.81$; Keiser criterion: eigenvalue >1 and scree plot analysis: 2, explained variance = 0.61). The average factor loadings were F1: $M = 0.61$, F2: $M = 0.58$, differing from the original model. Cronbach's α values for the subscales were 0.87 and 0.78, respectively. Convergent validity was confirmed through significant correlations with related theoretical constructs.

Conclusions:

The findings confirm that the Polish two-factor version of PSSI demonstrates satisfactory reliability and validity, suggesting its potential application in research.

Keywords

methodological beliefs, test, validation

Primary authors: JAROTA, Martyna (University of Lodz); PASIKOWSKI, Sławomir (University of Lodz)

Presenters: JAROTA, Martyna (University of Lodz); PASIKOWSKI, Sławomir (University of Lodz)

Session Classification: Poster Session 4

Track Classification: Design/Research methods: Design/Research methods