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Weighted Optimal Markov Model of a Single Outcome: Ipsative Standardization of Ordinal Ratings is Unnecessary

Paul R. Yarnold, Ph.D.
Optimal Data Analysis, LLC

This note empirically compares the use of raw *vs*. ipsatively standardized variables in optimal weighted Markov analysis involving a series for a single outcome—presently, ratings of sleep difficulties for an individual. Findings indicate that the raw score and ipsatively standardized ordinal ratings yield equivalent results in such designs.

Reanalysis of a study[1] modeling a *single outcome* (ratings of sleep difficulty) compared use of the absolute difference of ipsatively standardized ratings *vs*. use of the absolute difference of raw score ratings at time *i vs*. time *i*+1 as weights. Identical weighted ESS was obtained.

References

[1]Yarnold PR, Soltysik RC (2019). Confirming the efficacy of weighting in optimal Markov analysis: Modeling serial symptom ratings. *Optimal Data Analysis*, *8*, 53-55.

Author Notes

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