manMCMedMiss: Monte Carlo Confidence Intervals for the Indirect Effect with Missing Data

Ivan Jacob Agaloos Pesigan

Description

Research compendium for the manuscript Pesigan, I. J. A., & Cheung, S. F. (2023). Monte Carlo confidence intervals for the indirect effect with missing data. *Behavior Research Methods*. https://doi.org/10.3758/s13428-023-02114-4

Acknowledgment

The simulation was performed in part at the High-Performance Computing Cluster (HPCC) which is supported by the Information and Communication Technology Office (ICTO) of the University of Macau. See https://icto.um.edu.mo/teaching-learning-research/high-performance-computing-cluster-hpcc/ for more information on the University of Macau's High-Performance Computing Cluster (HPCC). We used the third-generation HPCC (Coral) particularly the *serial-normal* and *serial-short* cluster partitions. See *.sim/README.md* and the scripts in the *.sim* folder in the GitHub repository for more details on how the simulation was performed.

Installation

You can install the released version of `manMCMedMiss` from GitHub with:

```r
install.packages("remotes")

remotes::install_github("jeksterslab/manMCMedMiss")
```

See Containers for containerized versions of the package.

Author-Accepted Manuscript

See https://github.com/jeksterslab/manMCMedMiss/blob/main/.setup/latex/manMCMedMiss-manuscript.Rtex for the latex file of the manuscript. See https://github.com/jeksterslab/manMCMedMiss/blob/latex/manMCMedMiss-manuscript.pdf for the compiled PDF.

R Package

Monte Carlo confidence intervals for free and defined parameters in models fitted in the structural equation modeling package `lavaan` can be generated using the `semmcci` package. `semmcci` is available on the Comprehensive R Archive Network (CRAN) (https://CRAN.R-project.org/package=semmcci). Documentation and examples can be found in the accompanying website (https://jeksterslab.github.io/semmcci).

More Information

See GitHub Pages for package documentation.

References

Pesigan, I. J. A., & Cheung, S. F. (2023). Monte Carlo confidence intervals for the indirect effect with missing data. *Behavior Research Methods*. https://doi.org/10.3758/s13428-023-02114-4

R Core Team. (2023). *R: A language and environment for statistical computing*. R Foundation for Statistical Computing. Vienna, Austria. https://www.R-project.org/