betaMC: Monte Carlo Confidence Intervals for Standardized Regression Coefficients

Ivan Jacob Agaloos Pesigan

Description

Generates Monte Carlo confidence intervals for standardized regression coefficients and other effect sizes for models fitted by `lm()`. `betaMC` combines ideas from Monte Carlo confidence intervals for the indirect effect (Preacher & Selig, 2012) and the sampling covariance matrix of regression coefficients (Dudgeon, 2017) to generate confidence intervals for standardized regression coefficients.

Installation

You can install the CRAN release of `betaMC` with:

```
install.packages("betaMC")
```

You can install the development version of `betaMC` from GitHub with:

```
if (!require("remotes")) install.packages("remotes")
remotes::install_github("jeksterslab/betaMC")
```

More Information

See GitHub Pages for package documentation.

References

Dudgeon, P. (2017). Some improvements in confidence intervals for standardized regression coefficients. *Psychometrika*, *82*(4), 928–951. https://doi.org/10.1007/s11336-017-9563-z

Preacher, K. J., & Selig, J. P. (2012). Advantages of Monte Carlo confidence intervals for indirect effects. *Communication Methods and Measures*, *6*(2), 77–98. https://doi.org/10.1080/19312458.2012.679848

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