

betaDelta: Confidence Intervals for Standardized Regression Coefficients

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Description

Generates confidence intervals for standardized regression coefficients using delta method standard errors for models fitted by `lm()` as described in Yuan and Chan (2011) and Jones and Waller (2013). The package can also be used to generate confidence intervals for differences of standardized regression coefficients and as a general approach to performing the delta method. A description of the package and code examples are presented in Pesigan et al. (2023).

Installation

You can install the CRAN release of **betaDelta** with:

```
install.packages("betaDelta")
```

You can install the development version of **betaDelta** from [GitHub](#) with:

```
if (!require("pak")) install.packages("pak")
pak::pkg_install("jeksterslab/betaDelta")
```

More Information

See [GitHub Pages](#) for package documentation.

References

- Jones, J. A., & Waller, N. G. (2013). *The normal-theory and asymptotic distribution-free (ADF) covariance matrix of standardized regression coefficients: Theoretical extensions and finite sample behavior* (tech. rep.). University of Minnesota-Twin Cities. Retrieved July 22, 2022, from <http://users.cla.umn.edu/~nwaller/downloads/techreports/TR052913.pdf>
- Pesigan, I. J. A., Sun, R. W., & Cheung, S. F. (2023). betaDelta and betaSandwich: Confidence intervals for standardized regression coefficients in R. *Multivariate Behavioral Research*, 58(6), 1183–1186. <https://doi.org/10.1080/00273171.2023.2201277>
- R Core Team. (2025). *R: A language and environment for statistical computing*. R Foundation for Statistical Computing. Vienna, Austria. <https://www.R-project.org/>
- Yuan, K.-H., & Chan, W. (2011). Biases and standard errors of standardized regression coefficients. *Psychometrika*, 76(4), 670–690. <https://doi.org/10.1007/s11336-011-9224-6>