Package 'IHW'

October 12, 2025

Title Independent Hypothesis Weighting

Version 1.29.1

Description Independent hypothesis weighting (IHW) is a multiple testing procedure that increases power compared to the method of Benjamini and Hochberg by assigning data-driven weights to each hypothesis. The input to IHW is a two-column table of p-values and covariates. The covariate can be any continuous-valued or categorical variable that is thought to be informative on the statistical properties of each hypothesis test, while it is independent of the p-value under the null hypothesis.

Depends R (>= 3.3.0)

License Artistic-2.0

Imports methods, fdrtool, BiocGenerics, Rcpp, RcppEigen

Suggests ggplot2, dplyr, gridExtra, scales, DESeq2, airway, testthat, Matrix, BiocStyle, knitr, rmarkdown, devtools, CVXR, gurobi

VignetteBuilder knitr

biocViews ImmunoOncology, MultipleComparison, RNASeq

Roxygen list(markdown = TRUE)

RoxygenNote 7.3.3

Encoding UTF-8

LinkingTo Rcpp, RcppEigen

NeedsCompilation yes

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R topics documented: