The package ‘multiagree’ implements the bootstrap method to compare several dependent kappa coefficients.

The package 'multiagree' can be installed from github using the following command lines in R studio:

install.packages("devtools")

devtools::install\_github("svanbelle/multiagree")

The following lines can be use to reproduce the results obtained in paper

#dataset (Vanbelle and Albert, 2008)

set.seed(103) #to get the same results as in the paper

data(depression)

attach(depression)

a<-boot.pair(data=cbind(diag,BDI,diag,GHQ),cluster\_id=ID,weight='unweighted')

The output for the bootstrap method is given as follows:

Value of the kappa coefficients

Kappa SE

kappa 1 0.525 0.144

kappa 2 0.738 0.114

Hotellings T^2

T2 pvalue

2.191649 0.1390759

Pairwise comparisons, 95% CI

Limit inf Limit sup

kappa 1 vs kappa 2 -0.366 -0.062

Correlation matrix between the kappa statistics

kappa 1 kappa 2

kappa 1 1.000 0.395

kappa 2 0.395 1.000