Description

This package consists of methods that compute rank based tests for clustered data.
Details
clus.rank.sum

Package: ClusterRankTest
Type: Package
Version: 1.0
Date: 2016-04-21
License: GPL-2 | GPL-3

Author(s)
Sandipan Dutta, Somnath Datta
Maintainer: Sandipan Dutta <sandipan.dutta07@gmail.com>

clus.rank.sum  Cluster Rank Test

Description
This package consists of methods that compute rank based tests for clustered data.

Usage
clus.rank.sum(Cluster, X, grp = NULL, Y = NULL, test = c("DS", "DD", "SDS"))

Arguments
Cluster  Cluster ID
X         Outcome variable
grp       Binary group indicator variable (0 or 1) if test= "DS" or "DD"
Y         Matched outcome variable if test="SDS"
test      "DS" = Datta-Satten rank-sum test, "DD" = Dutta-Datta rank-sum test, "SDS" = Data-Satten signed rank test

Value
pvalue    P-value for the test
Test Statistic  Test statistic value for the test

References
Examples

Cluster<-c(1L,1L,2L,2L,2L,3L,3L)
X<-c(1L,4L,2L,4L,6L,4L,7L,8L)
grp<-c(0L,1L,0L,0L,1L,1L,1L,0L)
dataset <- list(Cluster,X,grp)

clus.rank.sum(Cluster, X, grp, test="DS")

Description

The dataset has three columns. The first two columns will be 'Cluster ID' and 'X'(outcome). The
third column will be either 'Group Indicator' (for rank-sum tests) or 'Y'(paired outcome for signed-rank
tests).

Usage

data("dataset")

print.Cluster.Test  

Print function.

Description

Prints the p-value and the test statistic.
Index

clus.rank.sum, 3
ClusterRankTest
   (ClusterRankTest-package), 1
ClusterRankTest-package, 1

dataset, 4

print.Cluster.Test, 4