Program Name: srktie_d

Language: SAS

Objective: Generalized signed rank test for equivalence allowing for tied data,

computation of the test statistic and its critical upper bound from arbitrary

sets of intraindividual differences

Input:

N sample size ALPHA significance level

EPS1 distance from 1/2 of the left-hand endpoint of the equivalence range for

 $q_+/(1-q_0) \equiv P[D_i+D_i>0]/P[D_i+D_i\neq 0]$

EPS2 distance from 1/2 of the right-hand endpoint of the equivalence range for

 $q_{+}/(1-q_{0})$

PATH full pathname of the file containing the set of raw data

Output:

N value read from input file
ALPHA " " " " " " "
EPS1 " " " " " " "
EPS2 " " " " " " " "

U_PL observed value of the \emph{U} -statistic estimator of $\ q_+ \ U_0$

UAS_PL estimate of $q_+/(1-q_0)$

TAUHAS estimated standard error of \sqrt{n} U₊/(1-U₀)

CRIT critical upper bound to the absolute value of the centred, standardized test

statistic

REJ indicator of the decision to be taken [REJ=1 <=> rejection of the null

hypothesis of inequivalence; REJ=0 <=> acceptance of H]