

Output tables for 1xN statistical comparisons.

April 4, 2023

1 Average rankings of Friedman test

Average ranks obtained by each method in the Friedman test.

Algorithm	Ranking
B2	2.375
F11	3
I1	1.8125
HAPPENN-MAIN	6.125
HemoPI(SVM+Motif-HemoPI-1based)	4.0625
HemoPred	6.2812
HLPpred-Fuse	4.3438

Table 1: Average Rankings of the algorithms (Friedman)

Friedman statistic (distributed according to chi-square with 6 degrees of freedom): 62.631696.
P-value computed by Friedman Test: 0.

2 Post hoc comparison (Friedman)

P-values obtained in by applying post hoc methods over the results of Friedman procedure.

i	algorithm	$z = (R_0 - R_i)/SE$	p	Holm	Hochberg	Hommel	Holland	Li
6	HemoPred	5.850967	0		0.008333		0.008512	0.028346
5	HAPPENN-MAIN	5.646388	0		0.01		0.010206	0.028346
4	HLPpred-Fuse	3.314184	0.000919		0.0125		0.012741	0.028346
3	HemoPI(SVM+Motif-HemoPI-1based)	2.945942	0.00322		0.016667		0.016952	0.028346
2	F11	1.554802	0.119993		0.025		0.025321	0.028346
1	B2	0.736485	0.461435		0.05		0.05	0.05

Table 2: Post Hoc comparison Table for $\alpha = 0.05$ (FRIEDMAN)

Bonferroni-Dunn's procedure rejects those hypotheses that have an unadjusted p-value ≤ 0.008333 .

Holm's procedure rejects those hypotheses that have an unadjusted p-value ≤ 0.025 .

Hochberg's procedure rejects those hypotheses that have an unadjusted p-value ≤ 0.016667 .

Hommel's procedure rejects those hypotheses that have an unadjusted p-value ≤ 0.025 .

Holland's procedure rejects those hypotheses that have an unadjusted p-value ≤ 0.025321 .

Li's procedure rejects those hypotheses that have an unadjusted p-value ≤ 0.028346 .

3 Adjusted P-Values (Friedman)

Adjusted P-values obtained through the application of the post hoc methods (Friedman).

i	algorithm	unadjusted p	p_{Bonf}	p_{Holm}	$p_{Hochberg}$	p_{Hommel}
1	HemoPred	0	0	0	0	0
2	HAPPENN-MAIN	0	0	0	0	0
3	HLPpred-Fuse	0.000919	0.005515	0.003676	0.003676	0.003676
4	HemoPI(SVM+Motif-HemoPI-1based)	0.00322	0.019318	0.009659	0.009659	0.009659
5	F11	0.119993	0.719959	0.239986	0.239986	0.239986
6	B2	0.461435	2.768612	0.461435	0.461435	0.461435

Table 3: Adjusted p -values (FRIEDMAN) (I)

i	algorithm	unadjusted p	$p_{Holland}$	p_{Li}
1	HemoPred	0	0	0
2	HAPPENN-MAIN	0	0	0
3	HLPpred-Fuse	0.000919	0.003671	0.001704
4	HemoPI(SVM+Motif-HemoPI-1based)	0.00322	0.009628	0.005943
5	F11	0.119993	0.225588	0.182206
6	B2	0.461435	0.461435	0.461435

Table 4: Adjusted p -values (FRIEDMAN) (II)