Output tables for 1xN statistical comparisons.

September 9, 2024

1 Average rankings of Friedman test

Average ranks obtained by each method in the Friedman test.

Algorithm	Ranking
Random	8.375
NN	7
Sweep	8.375
SaveSeq	2.875
SaveParall	1.875
MJ	2.375
CMT	2.875
Kilby	5.75
SaveMatch	5.5

Table 1: Average Rankings of the algorithms (Friedman)

Friedman statistic (distributed according to chi-square with 8 degrees of freedom): 56.833333.

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
8	Random	4.746929	0.000002
7	Sweep	4.746929	0.000002
6	NN	3.742771	0.000182
5	Kilby	2.8299	0.004656
4	SaveMatch	2.647326	0.008113
3	SaveSeq	0.730297	0.465209
2	CMT	0.730297	0.465209
1	MJ	0.365148	0.715001

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

3 Adjusted P-Values (Friedman)

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

i	algorithm	unadjusted p
1	Random	0.000002
2	Sweep	0.000002
3	NN	0.000182
4	Kilby	0.004656
5	SaveMatch	0.008113
6	SaveSeq	0.465209
7	CMT	0.465209
8	MJ	0.715001

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

i	algorithm	unadjusted p
1	Random	0.000002
2	Sweep	0.000002
3	NN	0.000182
4	Kilby	0.004656
5	SaveMatch	0.008113
6	SaveSeq	0.465209
7	CMT	0.465209
8	MJ	0.715001

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