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	7.25
NN	7.375
Sweep	7.25
SaveSeq	4.875
SaveParall	2.625
MJ	1
CMT	2.375
Kilby	5.625
SaveMatch	6.625

Table 1: Average Rankings of the algorithms (Friedman)

Friedman statistic (distributed according to chi-square with 8 degrees of freedom): 50.5.

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	NN	4.655642	0.000003
7	Random	4.564355	0.000005
6	Sweep	4.564355	0.000005
5	SaveMatch	4.107919	0.00004
4	Kilby	3.377622	0.000731
3	SaveSeq	2.8299	0.004656
2	SaveParall	1.186732	0.235333
1	CMT	1.004158	0.315302

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	NN	0.000003
2	Random	0.000005
3	Sweep	0.000005
4	SaveMatch	0.00004
5	Kilby	0.000731
6	SaveSeq	0.004656
7	SaveParall	0.235333
8	CMT	0.315302

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

i	algorithm	unadjusted p
1	NN	0.000003
2	Random	0.000005
3	Sweep	0.000005
4	SaveMatch	0.00004
5	Kilby	0.000731
6	SaveSeq	0.004656
7	SaveParall	0.235333
8	CMT	0.315302

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