Output tables for 1xN statistical comparisons.

January 30, 2025

1 Average rankings of Friedman test

Average ranks obtained by each method in the Friedman test.

Friedman statistic (distributed according to chi-square with 17 degrees of freedom): 422.595906.

P-value computed by Friedman Test: 0.

Algorithm	Ranking
BCA	14.5333
BN	9.7
CLARA	17.8
CP	13
CA	7.85
FF	16.0667
KM	15.5667
NBC	8.3
NBD	11.35
PAM	12.8
P	9.4833
RBE	3.9333
RSC	3.5667
SC	3.8167
S	3.5667
SW	4.55
3CC	3.6333
UPGMC	11.4833

Table 1: Average Rankings of the algorithms (Friedman)

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
17	CLARA	10.325945	0
16	FF	9.068453	0
15	KM	8.705715	0
14	BCA	7.956056	0
13	CP	6.843659	0
12	PAM	6.698564	0
11	UPGMC	5.743354	0
10	NBD	5.646623	0
9	BN	4.449588	0.000009
8	P	4.292401	0.000018
7	NBC	3.433921	0.000595
6	CA	3.107457	0.001887
5	SW	0.713385	0.475608
4	RBE	0.266008	0.790233
3	SC	0.181369	0.856078
2	3CC	0.048365	0.961425
1	S	0	1

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	CLARA	0
2	FF	0
3	KM	0
4	BCA	0
5	CP	0
6	PAM	0
7	UPGMC	0
8	NBD	0
9	BN	0.000009
10	P	0.000018
11	NBC	0.000595
12	CA	0.001887
13	SW	0.475608
14	RBE	0.790233
15	SC	0.856078
16	3CC	0.961425
17	S	1

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

i	algorithm	unadjusted p
1	CLARA	0
2	FF	0
3	KM	0
4	BCA	0
5	CP	0
6	PAM	0
7	UPGMC	0
8	NBD	0
9	BN	0.000009
10	P	0.000018
11	NBC	0.000595
12	CA	0.001887
13	SW	0.475608
14	RBE	0.790233
15	SC	0.856078
16	3CC	0.961425
17	S	1

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