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.

Finner	0.003013	0.006016	0.009011	0.011996	0.014973	0.017941	0.020899	0.023849	0.02679	0.029722	0.032645	0.035559	0.038465	0.041362	0.04425	0.047129	0.05
d	0	0	0	0	0	0	0	0	0.00000.0	0.000018	0.000595	0.001887	0.475608	0.790233	0.856078	0.961425	1
$z = (R_0 - R_i)/SE$	10.325945	9.068453	8.705715	7.956056	6.843659	6.698564	5.743354	5.646623	4.449588	4.292401	3.433921	3.107457	0.713385	0.266008	0.181369	0.048365	0
algorithm	CLARA	FF	$_{ m KM}$	$_{ m BCA}$	$_{ m CP}$	$_{ m PAM}$	$_{ m UPGMC}$	NBD	BN	Ь	NBC	$_{ m CA}$	SW	RBE	$^{ m SC}$	3CC	S
i	17	16	15	14	13	12	11	10	6	∞	7	9	ಬ	4	က	2	1

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

Finner's procedure rejects those hypotheses that have an unadjusted p-value ≤ 0.038465 .

3 Adjusted P-Values (Friedman)

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

unadjusted p	0	0	0	0	0	0	0	0	0.00000.0	0.000018	0.000595	0.001887	0.475608	0.790233	0.856078	0.961425	1	
algorithm	CLARA	FF	$_{ m KM}$	BCA	$^{\mathrm{CP}}$	$_{ m PAM}$	UPGMC	NBD	BN	Ь	NBC	CA	$^{ m SM}$	RBE	$_{ m SC}$	3CC	\mathbf{S}	
	П	2	က	4	5	9	7	∞	6	10	11	12	13	14	15	16	17	

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

i	algorithm	unadjusted p	p_{Finner}
1	CLARA	0	0
2	FF	0	0
3	$_{\mathrm{KM}}$	0	0
4	BCA	0	0
5	$^{\mathrm{CP}}$	0	0
6	PAM	0	0
7	UPGMC	0	0
8	NBD	0	0
9	BN	0.000009	0.000016
10	Р	0.000018	0.00003
11	NBC	0.000595	0.000919
12	CA	0.001887	0.002672
13	sw	0.475608	0.570071
14	RBE	0.790233	0.849895
15	SC	0.856078	0.888858
16	3CC	0.961425	0.968526
_17	S	1	1

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