Output tables for 1xN statistical comparisons.

October 30, 2021

1 Average rankings of Friedman test

Average ranks obtained by each method in the Friedman test.

Algorithm	Ranking
brm-original	3.4032
brm-correlation	4.1129
brm-cosine	4.1989
brm-manhattan	3.3871
gmm	3.0968
isof	5.1559
ocsvm	4.6452

Table 1: Average Rankings of the algorithms (Friedman)

Friedman statistic (distributed according to chi-square with 6 degrees of freedom): 66.806452.
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
6	isof	6.499934	0	0.008333
5	ocsvm	4.887678	0.000001	0.01
4	brm-cosine	3.479077	0.000503	0.0125
3	brm-correlation	3.207539	0.001339	0.016667
2	brm-original	0.967353	0.333368	0.025
1	brm-manhattan	0.91644	0.359436	0.05

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

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

3 Adjusted P-Values (Friedman)

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

i	algorithm	unadjusted p	p_{Holm}
1	isof	0	0
2	ocsvm	0.000001	0.000005
3	brm-cosine	0.000503	0.002013
4	brm-correlation	0.001339	0.004016
5	brm-original	0.333368	0.666735
6	brm-manhattan	0.359436	0.666735

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

i	algorithm	unadjusted p
1	isof	0
2	ocsvm	0.000001
3	brm-cosine	0.000503
4	brm-correlation	0.001339
5	brm-original	0.333368
6	brm-manhattan	0.359436

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