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	3.4301
brm-correlation	3.5484
brm-cosine	3.8441
brm-manhattan	3.5699
gmm	2.9301
isof	4.8763
ocsvm	5.8011

Table 1: Average Rankings of the algorithms (Friedman)

Friedman statistic (distributed according to chi-square with 6 degrees of freedom): 117.470046.
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	ocsvm	9.062571	0	0.008333
5	isof	6.14354	0	0.01
4	brm-cosine	2.885088	0.003913	0.0125
3	brm-manhattan	2.019562	0.043429	0.016667
2	brm-correlation	1.951677	0.050977	0.025
1	brm-original	1.578313	0.114494	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 ≤ 0.016667.

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	ocsvm	0	0
2	isof	0	0
3	brm-cosine	0.003913	0.015652
4	brm-manhattan	0.043429	0.130287
5	brm-correlation	0.050977	0.130287
6	brm-original	0.114494	0.130287

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

i	algorithm	unadjusted p
1	ocsvm	0
2	isof	0
3	brm-cosine	0.003913
4	brm-manhattan	0.043429
5	brm-correlation	0.050977
6	brm-original	0.114494

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