

# Output tables for 1xN statistical comparisons.

October 21, 2021

## 1 Average rankings of Friedman test

Average ranks obtained by each method in the Friedman test.

Algorithm	Ranking
brm	1.9421
gmm	2.0474
isorf	3.1579
ocsvm	2.8526

Table 1: Average Rankings of the algorithms (Friedman)

Friedman statistic (distributed according to chi-square with 3 degrees of freedom): 61.177895.  
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
3	isorf	6.49054	0	0.016667
2	ocsvm	4.86088	0.000001	0.025
1	gmm	0.561951	0.574149	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  $\leq 0.05$ .

### 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	isorf	0	0
2	ocsvm	0.000001	0.000002
3	gmm	0.574149	0.574149

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

i	algorithm	unadjusted $p$
1	isorf	0
2	ocsvm	0.000001
3	gmm	0.574149

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