

Output tables for 1xN statistical comparisons.

January 17, 2017

1 Average rankings of Friedman test

Average ranks obtained by each method in the Friedman test.

Algorithm	Ranking
SVRCC	2.8333
MORF	6.4167
ST	5.8958
MTS	6.6042
MTSC	6.4792
RC	7.5208
ERC	5.8958
ERCC	4.8542
SVR	4.7917
SVRRC	3.7083

Table 1: Average Rankings of the algorithms (Friedman)

Friedman statistic (distributed according to chi-square with 9 degrees of freedom): 48.843182.
P-value computed by Friedman Test: 0.

Iman and Davenport statistic (distributed according to F-distribution with 9 and 207 degrees of freedom): 6.720594.
P-value computed by Iman and Davenport Test: 0.000000019399.

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
9	RC	5.363227	0	0.005556
8	MTS	4.314418	0.000016	0.00625
7	MTSC	4.171399	0.00003	0.007143
6	MORF	4.09889	0.000041	0.008333
5	ERC	3.503975	0.000458	0.01
4	ST	3.503975	0.000458	0.0125
3	ERCC	2.312147	0.02077	0.016667
2	SVR	2.240637	0.02505	0.025
1	SVRRC	1.001136	0.316761	0.05

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

Bonferroni-Dunn's procedure rejects those hypotheses that have an unadjusted p-value ≤ 0.005556 .
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_{Bonf}	p_{Holm}
1	RC	0	0.000001	0.000001
2	MTS	0.000016	0.000144	0.000128
3	MTSC	0.00003	0.000272	0.000212
4	MORF	0.000041	0.000372	0.000248
5	ERC	0.000458	0.004125	0.002292
6	ST	0.000458	0.004125	0.002292
7	ERCC	0.02077	0.186926	0.062309
8	SVR	0.02505	0.225446	0.062309
9	SVRRC	0.316761	2.850851	0.316761

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

i	algorithm	unadjusted p
1	RC	0
2	MTS	0.000016
3	MTSC	0.00003
4	MORF	0.000041
5	ERC	0.000458
6	ST	0.000458
7	ERCC	0.02077
8	SVR	0.02505
9	SVRRC	0.316761

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