Output tables for 1xN statistical comparisons.

January 15, 2017

1 Average rankings of Friedman test

Average ranks obtained by each method in the Friedman test.

Algorithm	Ranking
SVRCC	3.0417
MORF	6.5833
ST	5.6667
MTS	6.0833
MTSC	6.25
RC	7.8333
ERC	6.125
ERCC	5.125
SVR	4.6667
SVRRC	3.625

Table 1: Average Rankings of the algorithms (Friedman)

Friedman statistic (distributed according to chi-square with 9 degrees of freedom): 48.
P-value computed by Friedman Test: 0.

Iman and Davenport statistic (distributed according to F-distribution with 9 and 207 degrees of freedom): 6.571429.
P-value computed by Iman and Daveport Test: 0.000000030808.

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	5.48241	0	0.005556
8	MORF	4.052216	0.000051	0.00625
7	MTSC	3.670831	0.000242	0.007143
6	ERC	3.527812	0.000419	0.008333
5	MTS	3.480138	0.000501	0.01
4	ST	3.003407	0.00267	0.0125
3	ERCC	2.383656	0.017142	0.016667
2	SVR	1.859252	0.062991	0.025
1	SVRRC	0.667424	0.504501	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	0
2	MORF	0.000051	0.000457	0.000406
3	MTSC	0.000242	0.002176	0.001692
4	ERC	0.000419	0.003771	0.002514
5	MTS	0.000501	0.00451	0.002514
6	ST	0.00267	0.024028	0.010679
7	ERCC	0.017142	0.154274	0.051425
8	SVR	0.062991	0.566923	0.125983
9	SVRRC	0.504501	4.540513	0.504501

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

i	algorithm	unadjusted p
1	RC	0
2	MORF	0.000051
3	MTSC	0.000242
4	ERC	0.000419
5	MTS	0.000501
6	ST	0.00267
7	ERCC	0.017142
8	SVR	0.062991
9	SVRRC	0.504501

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