Output tables for 1xN statistical comparisons.

January 16, 2017

1 Average rankings of Friedman test

Average ranks obtained by each method in the Friedman test.

Algorithm	Ranking
SVRCC	2.7917
MORF	7.5
ST	5.7708
MTS	5.9375
MTSC	6.1667
RC	7.4375
ERC	6.375
ERCC	4.9792
SVR	4.7708
SVRRC	3.2708

Table 1: Average Rankings of the algorithms (Friedman)

Friedman statistic (distributed according to chi-square with 9 degrees of freedom): 58.479545.
P-value computed by Friedman Test: 0.

Iman and Davenport statistic (distributed according to F-distribution with 9 and 207 degrees of freedom): 8.538761.
P-value computed by Iman and Daveport Test: 0.000000000076.

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	MORF	5.387064	0	0.005556
8	RC	5.315554	0	0.00625
7	ERC	4.099889	0.000041	0.007143
6	MTSC	3.861523	0.000113	0.008333
5	MTS	3.599321	0.000319	0.01
4	ST	3.408629	0.000653	0.0125
3	ERCC	2.502839	0.01232	0.016667
2	SVR	2.264474	0.023545	0.025
1	SVRRC	0.548241	0.583526	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 ≤ 0.05.

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	MORF	0	0.000001	0.000001
2	RC	0	0.000001	0.000001
3	ERC	0.000041	0.000372	0.000289
4	MTSC	0.000113	0.001014	0.000676
5	MTS	0.000319	0.002871	0.001595
6	ST	0.000653	0.005876	0.002612
7	ERCC	0.01232	0.110881	0.03696
8	SVR	0.023545	0.211905	0.04709
9	SVRRC	0.583526	5.251738	0.583526

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

i	algorithm	unadjusted p
1	MORF	0
2	RC	0
3	ERC	0.000041
4	MTSC	0.000113
5	MTS	0.000319
6	ST	0.000653
7	ERCC	0.01232
8	SVR	0.023545
9	SVRRC	0.583526

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