Output tables for 1xN statistical comparisons.

June 28, 2020

1 Average rankings of Friedman test

Average ranks obtained by each method in the Friedman test.

Algorithm	Ranking	
MIL-EF-CON	2.7222	
MIL-CVCF-CON	2.7778	
MIL-IPF-CON	2.8333	
MIL-EF-MAX	3.4444	
MIL-CVCF-MAX	3.8889	
MIL-IPF-MAX	5.3333	

Table 1: Average Rankings of the algorithms (Friedman)

Friedman statistic (distributed according to chi-square with 5 degrees of freedom): 13.079365. P-value computed by Friedman Test: 0.022646.

2 Post hoc comparison (Friedman)

P-values obtained in by applying post hoc methods over the results of Friedman procedure.

i	algorithm	$z = (R_0 - R_i)/SE$	d	Holland
ಬ	MIL-IPF-MAX	2.960722	0.003069	0.010206
4	MIL-CVCF-MAX	1.322876	0.185877	0.012741
3	MIL-EF-MAX	0.818923	0.41283	0.41283 0.016952
2	MIL-IPF-CON	0.125988	0.899741	0.025321
1	MIL-CVCF-CON	0.062994	0.949771	0.05

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

Holland's procedure rejects those hypotheses that have an unadjusted p-value ≤ 0.012741 .

3 Adjusted P-Values (Friedman)

Adjusted P-values obtained through the application of the post hoc methods (Friedman).

-	algorithm	unadjusted p
	MIL-IPF-MAX	0.003069
2	MIL-CVCF-MAX	0.185877
က	MIL-EF-MAX	0.41283
4	MIL-IPF-CON	0.899741
ಬ	MIL-CVCF-CON	0.949771

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

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$p_{Holland}$	0.015252	.560701	0.797563	0.989948	0.989948
d	0.0	0	0.	0:0	0.9
unadjusted p	0.003069	0.185877	0.41283	0.899741	0.949771
$\operatorname{algorithm}$	MIL-IPF-MAX	MIL-CVCF-MAX	MIL- EF - MAX	MIL-IPF-CON	MIL-CVCF-CON
	1	2	3	4	20

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