Output tables for 1xN statistical comparisons.

January 10, 2022

1 Average rankings of Friedman test

Average ranks obtained by each method in the Friedman test. Friedman statistic (distributed according to chi-square with 12 degrees of freedom): 135.063398. P-value computed by Friedman Test: 0.

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Algorithm	Ranking
best-precision	3.6538
best-recall	7.9808
balanced	6.0385
promethee-precision	3.6538
promethee-recall	7.9808
bac	7.9038
precision	3.6346
recall	12.3654
f1	7.8654
auc	8.3654
gmean	8.8269
AdaBoost	8.0769
Bagging	4.6538

Table 1: Average Rankings of the algorithms (Friedman)

2 Post hoc comparison (Friedman)

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

d	0	0.000002	0.000012	0.000039	0.000057	0.000057	0.000077	0.00000	0.026046	0.345362	0.985795	0.985795
$z = (R_0 - R_i)/SE$	8.083122	4.807143	4.379841	4.112778	4.023757	4.023757	3.95254	3.916931	2.225529	0.943624	0.017804	0.017804
algorithm	recall	gmean	anc	AdaBoost	best-recall	promethee-recall	bac	fl	balanced	Bagging	best-precision	promethee-precision
i	12	11	10	6	∞	7	9	ಬ	4	က	2	П

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

3 Adjusted P-Values (Friedman)

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

0.000002	0.000012	0.000039	0.000057	0.000057	0.000077	0.00009	0.026046	0.345362	0.985795	0.985795
gmean	anc	AdaBoost	best-recall	promethee-recall	bac	fl	balanced	Bagging	best-precision	promethee-precision
7 7	3	4	ಬ	9	2	∞	6	10	111	12
										gmean auc AdaBoost best-recall promethee-recall f1 bac f1 balanced Bagging best-precision

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

unadjusted p		0.000002	0.000012	0.000039	0.000057	0.000057	0.000077	0.00009	0.026046	0.345362	0.985795	0.985795
algorithm	recall	gmean	anc	AdaBoost	best-recall	promethee-recall	bac	fl	balanced	Bagging	best-precision	promethee-precision
-	1	2	3	4	ಬ	9	7	∞	6	10	11	12

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