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): 74.057904. P-value computed by Friedman Test: 0.

Algorithm	Ranking
best-precision	9.3654
best-recall	4.75
balanced	5.1154
promethee-precision	9.3654
promethee-recall	4.75
bac	5.9038
precision	10.4423
recall	7.7885
f1	6.3654
auc	6.3269
gmean	5.5192
AdaBoost	8.2692
Bagging	7.0385

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	0.000019	0.000019	0.001121	0.004907	0.034116	0.13477	0.144305	0.285406	0.47636	0.735152	_
$z = (R_0 - R_i)/SE$	5.270053	4.273016	4.273016	3.258175	2.813069	2.118704	1.495556	1.459947	1.068254	0.712169	0.33828	0
algorithm	precision	best-precision	promethee-precision	AdaBoost	recall	Bagging	f1	auc	bac	gmean	balanced	promethee-recall
$\cdot s$	12	11	10	6	_∞	7	9	ro	4	က	2	

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	0.000019	0.000019	0.001121	0.004907	0.034116	0.13477	0.144305	0.285406	0.47636	0.735152	1
precision	best-precision	promethee-precision	AdaBoost	recall	Bagging	IJ	anc	bac	gmean	balanced	promethee-recall
	2	3	4	2	9	7	∞	6	10	11	12
	1 precision 0									precision best-precision promethee-precision AdaBoost recall Bagging f1 auc bac	precision best-precision promethee-precision AdaBoost recall Bagging f1 auc bac gmean balanced

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

best-precision
promethee-precision
AdaBoost
recall
Bagging
fl
anc
bac
gmean
balanced
promethee-recall

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