

Statistical comparisons considering all the tested databases and a cost of 20 for each misclassified object of the minority class for the paper entitled:

**Cost-sensitive pattern-based
classification for class imbalance
problems**

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1 Average rankings of Friedman test

Average ranks obtained by each method in the Friedman test.

Algorithm	Ranking
MetaCost+LCMine	2.0158
Metacost+DEPMiner	2.5316
Our Proposal	1.4526

Table 1: Average Rankings of the algorithms (Friedman)

Friedman statistic (distributed according to chi-square with 2 degrees of freedom): 55.331579.

P-value computed by Friedman Test: 0.

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	Finner
2	Metacost+DEPMiner	7.436132	0	0.025321
1	MetaCost+LCMine	3.881298	0.000104	0.05

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).

i	algorithm	unadjusted p
1	Metacost+DEPMiner	0
2	MetaCost+LCMine	0.000104

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

i	algorithm	unadjusted p	p_{Finner}
1	Metacost+DEPMiner	0	0
2	MetaCost+LCMine	0.000104	0.000104

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