XLSTAT 2015.2.01.17315 - ROC Curves - on 5/3/2015 at 18:03:06

Event data: Workbook = LV\_DT / Sheet = LV\_DT / Range = LV\_DT!\$C:\$C / 6681 rows and 1 column Test data: Workbook = LV\_DT / Sheet = LV\_DT / Range = LV\_DT!\$E:\$E / 6681 rows and 1 column

Size (%): 95 / Clopper-Pearson

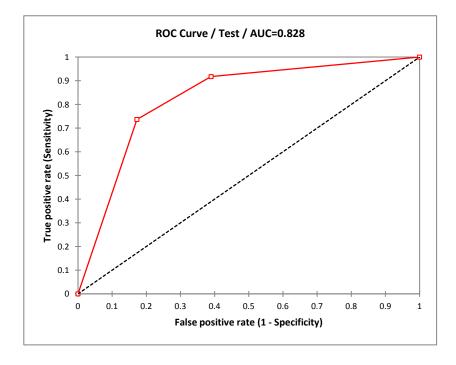
Area under the curve (Variance): Hanley & McNeil

Costs: TP = 1 / TN = 1 / FP = 1 / FN = 1

## Summary statistics (Test):

Variable	Observationwith	missinętho	out missi	Minimum	Maximum	Mean	td. deviation
Test	6681	0	6681	1.000	5.000	3.028	1.785

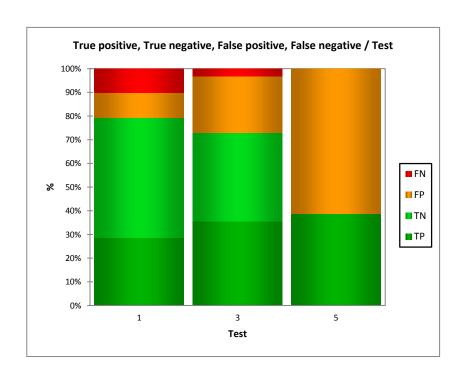
Event	Frequency	%
1	2593	39%
3	1310	20%
5	2778	42%
Prevalence	0.388	39%

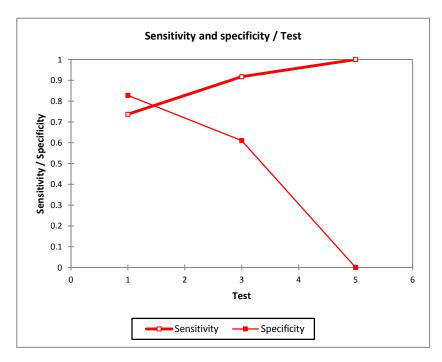


## ROC analysis:

Test	Sensitivity	er bound (Se	r bound (9	Specificity	er bound (9	er bound (9	Cost	PPV
1.000	0.737	0.719	0.753	0.828	0.816	0.839	6681	0.730
3.000	0.917	0.906	0.928	0.610	0.595	0.625	6681	0.599

Test is positive if Test <= threshold value





Area under the curve (AUC):

AUC	tandard errær	bound (Ser	bound (95%)
 0.828	0.005	0.818	0.839

## Comparison of the AUC to 0.5:

95% confidence interval on the difference between the AUC and 0.5 (Two-tailed test):

] 0.318, 0.339 [

Difference	0.328
z (Observec	59.988
z (Critical v	1.960
p-value (Tw	< 0.0001
alpha	0.05

Test interpretation:

H0: The AUC is equal to 0.5.

Ha: The AUC is different from 0.5.

As the computed p-value is lower than the significance level alpha=0.05, one should reject the null hypothesis H0, and accept the alternative hypothesis Ha.

The risk to reject the null hypothesis H0 while it is true is lower than 0.01%.

NPV	LR+	LR-	TP	TN	FP	FN	tivity+Speci	Accuracy
0.832	4.271	0.318	1910	3383	705	683	1.564	0.792
0.921	2.354	0.135	2379	2495	1593	214	1.528	0.730

1.000 2593 0 4088 0 1.000 0.388