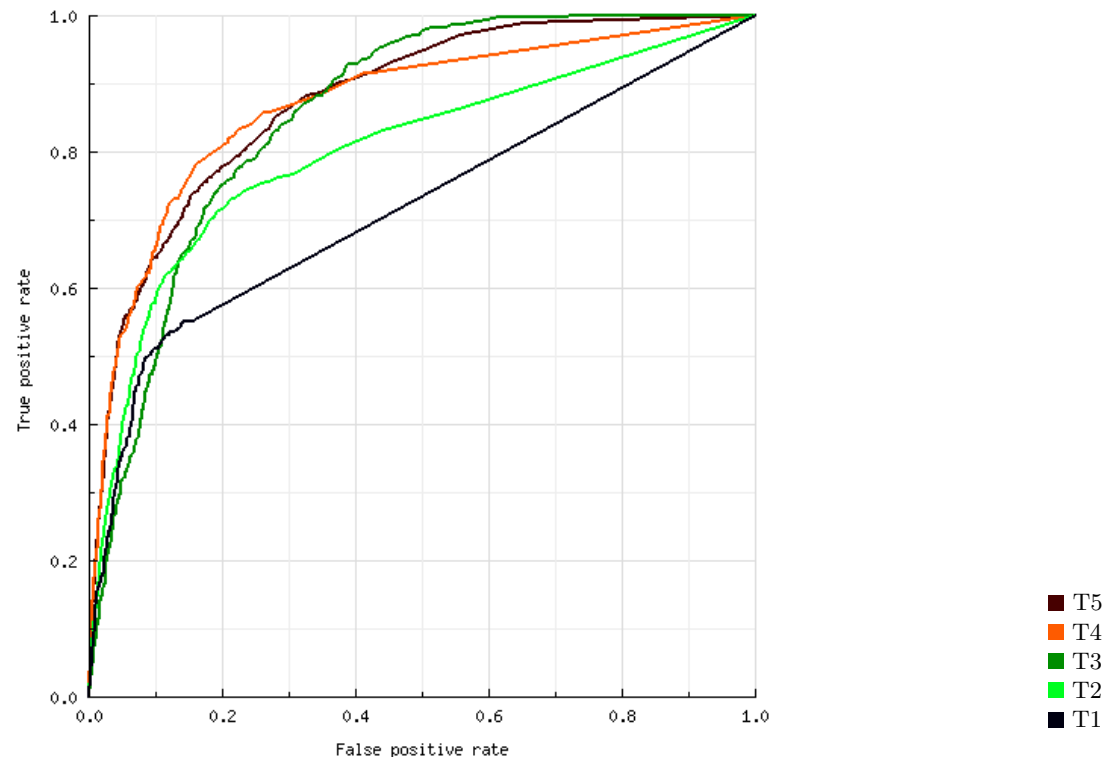


StAR Report for the Analysis of ROC Curves

Generated at <http://melolab.org/star>

July 6, 2020

1 ROC Plots



2 Summary Statistics

| Classifier | AUC | Inverted | ACC | OT | fp | tp | N | P |
|------------|--------|----------|--------|--------|--------|--------|------|-----|
| T5 | 0.8765 | + | 0.9197 | 0.2850 | 0.0269 | 0.4008 | 4754 | 489 |
| T4 | 0.8694 | + | 0.9195 | 0.2590 | 0.0284 | 0.4131 | 4754 | 489 |
| T3 | 0.8564 | + | 0.9069 | 0.9720 | 0.0032 | 0.0327 | 4754 | 489 |
| T2 | 0.8010 | + | 0.9104 | 0.9500 | 0.0179 | 0.2127 | 4754 | 489 |
| T1 | 0.7183 | + | 0.9105 | 0.5340 | 0.0095 | 0.1329 | 4754 | 489 |

AUC: area under the ROC curve. ACC: maximal accuracy. OT: optimal threshold.

fp: false positive rate at OT. tp: true positive rate at OT.

N: number of negative instances. P: number of positive instances.

3 Statistical Analysis I

| | T5 | T4 | T3 | T2 | T1 |
|----|---------|---------|---------|---------|---------|
| T5 | - | 0.00710 | 0.02013 | 0.07554 | 0.15825 |
| T4 | 0.04241 | - | 0.01302 | 0.06844 | 0.15115 |
| T3 | 0.00074 | 0.06115 | - | 0.05541 | 0.13813 |
| T2 | 0.00000 | 0.00000 | 0.00000 | - | 0.08272 |
| T1 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | - |

Significance Level (alpha): **0.05**

Upper Triangle: AUC differences

Bottom Triangle: p-values

p-value <0.05

p-value >0.05

Global p-value: 1

4 Statistical Analysis II

| | T5 | T4 | T3 | T2 | T1 |
|----|-----------|-----------|-----------|-----------|-----------|
| T5 | 6.2571e-5 | 6.7914e-5 | 3.8458e-5 | 7.4029e-5 | 3.9554e-5 |
| T4 | 6.7914e-5 | 8.5504e-5 | 4.3526e-5 | 7.0780e-5 | 5.3986e-5 |
| T3 | 3.8458e-5 | 4.3526e-5 | 4.9926e-5 | 2.9356e-5 | 3.8427e-5 |
| T2 | 7.4029e-5 | 7.0780e-5 | 2.9356e-5 | 1.4420e-4 | 2.4652e-5 |
| T1 | 3.9554e-5 | 5.3986e-5 | 3.8427e-5 | 2.4652e-5 | 1.5188e-4 |

Covariance Matrix