

# Wilcoxon Signed Ranks test.

KEEL non-parametric statistical module

December 15, 2011

## **1 Detailed results for Self-Training (NN)**

### **1.1 Results**

### **1.2 Confidence intervals for Median of differences**

VS	$R^+$	$R^-$	Exact P-value	Asymptotic P-value
Self-Training (C45)	644.0	896.0	-	1
Self-Training (NB)	1003.0	537.0	-	0.050419
Self-Training (SMO)	832.0	708.0	-	0.599751
Co-Training (NN)	993.5	491.5	-	0.029819
Co-Training (C45)	658.0	827.0	-	1
Co-Training (NB)	907.0	633.0	-	0.2493
Co-Training (SMO)	639.0	901.0	-	1
Democratic-Co	526.0	1014.0	-	1
SETRED	401.5	1138.5	-	1
TriTraining (NN)	785.5	699.5	-	0.705276
TriTraining (C45)	582.0	958.0	-	1
TriTraining (NB)	886.0	654.0	-	0.329014
TriTraining (SMO)	678.5	861.5	-	1
DE-TriTraining (NN)	832.5	707.5	-	0.596836
DE-TriTraining (C45)	683.5	856.5	-	1
DE-TriTraining (NB)	932.0	608.0	-	0.173351
DE-TriTraining (SMO)	631.0	909.0	-	1
CoForest	604.0	936.0	-	1
Rasco (NN)	1540.0	0.0	-	0
Rasco (C45)	1182.0	358.0	-	0.000548
Rasco (NB)	1185.0	355.0	-	0.000492
Rasco (SMO)	1263.0	277.0	-	0.000036
Co-Bagging (NN)	597.0	943.0	-	1
Co-Bagging (C45)	592.0	948.0	-	1
Co-Bagging (NB)	908.5	631.5	-	0.243679
Co-Bagging (SMO)	608.0	932.0	-	1
Rel-Rasco (NN)	1528.5	11.5	-	0
Rel-Rasco (C45)	1174.0	366.0	-	0.000701
Rel-Rasco (NB)	1157.5	382.5	-	0.001137
Rel-Rasco (SMO)	1274.0	266.0	-	0.000024
CLCC	1160.0	380.0	-	0.001056
APSSC	1102.0	438.0	-	0.005149
SNNRCE	381.5	1158.5	-	1
ADE-CoForest	801.0	739.0	-	0.791411

Table 1: Results obtained by the Wilcoxon test for algorithm Self-Training (NN)

$\alpha=0.90$	Confidence interval	Exact confidence
Self-Training (C45)	[-0.0267 , 0.0064]	2
Self-Training (NB)	[0.0035 , 0.054]	2
Self-Training (SMO)	[-0.0093 , 0.0176]	2
Co-Training (NN)	[0.00095 , 0.0159]	2
Co-Training (C45)	[-0.028 , 0.00855]	2
Co-Training (NB)	[-0.0058 , 0.0382]	2
Co-Training (SMO)	[-0.0189 , 0.004]	2
Democratic-Co	[-0.0323 , -0.0041]	2
SETRED	[-0.00465 , -0.0006]	2
TriTraining (NN)	[-0.002 , 0.00275]	2
TriTraining (C45)	[-0.0333 , 0.0006]	2
TriTraining (NB)	[-0.0092 , 0.03755]	2
TriTraining (SMO)	[-0.0151 , 0.0052]	2
DE-TriTraining (NN)	[-0.006 , 0.0122]	2
DE-TriTraining (C45)	[-0.0189 , 0.00945]	2
DE-TriTraining (NB)	[-0.00425 , 0.04305]	2
DE-TriTraining (SMO)	[-0.0153 , 0.0024]	2
CoForest	[-0.02515 , 0.0022]	2
Rasco (NN)	[0.06815 , 0.1427]	2
Rasco (C45)	[0.035 , 0.1075]	2
Rasco (NB)	[0.0309 , 0.0937]	2
Rasco (SMO)	[0.043 , 0.1317]	2
Co-Bagging (NN)	[-0.01095 , 0.00075]	2
Co-Bagging (C45)	[-0.0323 , 0.00105]	2
Co-Bagging (NB)	[-0.0068 , 0.03755]	2
Co-Bagging (SMO)	[-0.018 , 0.0013]	2
Rel-Rasco (NN)	[0.06735 , 0.13885]	2
Rel-Rasco (C45)	[0.0343 , 0.1039]	2
Rel-Rasco (NB)	[0.027 , 0.09155]	2
Rel-Rasco (SMO)	[0.04385 , 0.13845]	2
CLCC	[0.02305 , 0.0834]	2
APSSC	[0.0123 , 0.04345]	2
SNNRCE	[-0.01165 , -0.00435]	2
ADE-CoForest	[-0.0095 , 0.02155]	2

Table 2: Confidence intervals for algorithm Self-Training (NN) ( $\alpha=0.90$ )

$\alpha=0.95$	Confidence interval	Exact confidence
Self-Training (C45)	[-0.0293 , 0.00965]	2
Self-Training (NB)	[-0.0002 , 0.06125]	2
Self-Training (SMO)	[-0.01225 , 0.0211]	2
Co-Training (NN)	[0.0004 , 0.0179]	2
Co-Training (C45)	[-0.03075 , 0.0115]	2
Co-Training (NB)	[-0.01 , 0.0443]	2
Co-Training (SMO)	[-0.02055 , 0.0062]	2
Democratic-Co	[-0.035 , -0.0009]	2
SETRED	[-0.005 , -0.0003]	2
TriTraining (NN)	[-0.00265 , 0.00345]	2
TriTraining (C45)	[-0.03585 , 0.0038]	2
TriTraining (NB)	[-0.01345 , 0.04305]	2
TriTraining (SMO)	[-0.0176 , 0.00785]	2
DE-TriTraining (NN)	[-0.0083 , 0.01485]	2
DE-TriTraining (C45)	[-0.0213 , 0.0127]	2
DE-TriTraining (NB)	[-0.0074 , 0.04795]	2
DE-TriTraining (SMO)	[-0.0169 , 0.0035]	2
CoForest	[-0.0274 , 0.0051]	2
Rasco (NN)	[0.06385 , 0.15225]	2
Rasco (C45)	[0.02895 , 0.1181]	2
Rasco (NB)	[0.025 , 0.1035]	2
Rasco (SMO)	[0.0374 , 0.14045]	2
Co-Bagging (NN)	[-0.0121 , 0.00225]	2
Co-Bagging (C45)	[-0.03575 , 0.0041]	2
Co-Bagging (NB)	[-0.01 , 0.0442]	2
Co-Bagging (SMO)	[-0.0205 , 0.00335]	2
Rel-Rasco (NN)	[0.06305 , 0.1503]	2
Rel-Rasco (C45)	[0.0275 , 0.11255]	2
Rel-Rasco (NB)	[0.02275 , 0.09805]	2
Rel-Rasco (SMO)	[0.03905 , 0.14825]	2
CLCC	[0.01825 , 0.0907]	2
APSSC	[0.0089 , 0.0466]	2
SNNRCE	[-0.0125 , -0.0034]	2
ADE-CoForest	[-0.0117 , 0.0288]	2

Table 3: Confidence intervals for algorithm Self-Training (NN) ( $\alpha=0.95$ )

## 2 Detailed results for Self-Training (C45)

### 2.1 Results

VS	$R^+$	$R^-$	Exact P-value	Asymptotic P-value
Self-Training (NN)	896.0	644.0	-	0.289196
Self-Training (NB)	1176.0	364.0	-	0.000651
Self-Training (SMO)	936.5	603.5	-	0.160869
Co-Training (NN)	1012.0	528.0	-	0.042174
Co-Training (C45)	716.5	768.5	-	1
Co-Training (NB)	1055.0	485.0	-	0.016753
Co-Training (SMO)	858.0	682.0	-	0.458389
Democratic-Co	618.5	921.5	-	1
SETRED	849.5	690.5	-	0.502229
TriTraining (NN)	903.5	636.5	-	0.260554
TriTraining (C45)	338.5	1201.5	-	1
TriTraining (NB)	1041.0	499.0	-	0.022919
TriTraining (SMO)	905.0	635.0	-	0.256252
DE-TriTraining (NN)	908.0	632.0	-	0.245874
DE-TriTraining (C45)	1036.5	503.5	-	0.025129
DE-TriTraining (NB)	1194.5	345.5	-	0.000364
DE-TriTraining (SMO)	949.0	591.0	-	0.132189
CoForest	574.0	966.0	-	1
Rasco (NN)	1510.0	30.0	-	0
Rasco (C45)	1519.0	21.0	-	0
Rasco (NB)	1284.0	201.0	-	0.000003
Rasco (SMO)	1412.0	128.0	-	0
Co-Bagging (NN)	884.5	655.5	-	0.334774
Co-Bagging (C45)	389.0	1096.0	-	1
Co-Bagging (NB)	1108.0	432.0	-	0.004524
Co-Bagging (SMO)	881.5	658.5	-	0.347535
Rel-Rasco (NN)	1510.0	30.0	-	0
Rel-Rasco (C45)	1518.0	22.0	-	0
Rel-Rasco (NB)	1342.0	198.0	-	0.000002
Rel-Rasco (SMO)	1410.0	130.0	-	0
CLCC	1270.0	270.0	-	0.000027
APSSC	1103.5	436.5	-	0.005089
SNNRCE	803.0	737.0	-	0.778729
ADE-CoForest	971.5	568.5	-	0.090219

Table 4: Results obtained by the Wilcoxon test for algorithm Self-Training (C45)

### 2.2 Confidence intervals for Median of differences

$\alpha=0.90$	Confidence interval	Exact confidence
Self-Training (NN)	[-0.0064 , 0.0267]	2
Self-Training (NB)	[0.02325 , 0.0599]	2
Self-Training (SMO)	[-0.00335 , 0.02865]	2
Co-Training (NN)	[0.00545 , 0.03515]	2
Co-Training (C45)	[-0.00245 , 0.00205]	2
Co-Training (NB)	[0.00915 , 0.0421]	2
Co-Training (SMO)	[-0.0077 , 0.0198]	2
Democratic-Co	[-0.0153 , 0.0016]	2
SETRED	[-0.0097 , 0.022]	2
TriTraining (NN)	[-0.0055 , 0.026]	2
TriTraining (C45)	[-0.00945 , -0.0022]	2
TriTraining (NB)	[0.00685 , 0.0412]	2
TriTraining (SMO)	[-0.00585 , 0.02955]	2
DE-TriTraining (NN)	[-0.0032 , 0.02165]	2
DE-TriTraining (C45)	[0.00225 , 0.0155]	2
DE-TriTraining (NB)	[0.01965 , 0.0472]	2
DE-TriTraining (SMO)	[-0.00145 , 0.0233]	2
CoForest	[-0.02255 , -0.00015]	2
Rasco (NN)	[0.0994 , 0.1502]	2
Rasco (C45)	[0.0459 , 0.1038]	2
Rasco (NB)	[0.04965 , 0.09685]	2
Rasco (SMO)	[0.06265 , 0.12805]	2
Co-Bagging (NN)	[-0.005 , 0.01635]	2
Co-Bagging (C45)	[-0.00885 , -0.00245]	2
Co-Bagging (NB)	[0.0124 , 0.0409]	2
Co-Bagging (SMO)	[-0.0058 , 0.02525]	2
Rel-Rasco (NN)	[0.0982 , 0.15095]	2
Rel-Rasco (C45)	[0.0454 , 0.10135]	2
Rel-Rasco (NB)	[0.0458 , 0.09465]	2
Rel-Rasco (SMO)	[0.0649 , 0.1344]	2
CLCC	[0.03315 , 0.08535]	2
APSSC	[0.0154 , 0.05795]	2
SNNRCE	[-0.0125 , 0.015]	2
ADE-CoForest	[0.0003 , 0.0257]	2

Table 5: Confidence intervals for algorithm Self-Training (C45) ( $\alpha=0.90$ )

$\alpha=0.95$	Confidence interval	Exact confidence
Self-Training (NN)	[-0.00965 , 0.0293]	2
Self-Training (NB)	[0.0197 , 0.0638]	2
Self-Training (SMO)	[-0.00605 , 0.0318]	2
Co-Training (NN)	[0.001 , 0.03945]	2
Co-Training (C45)	[-0.0032 , 0.00255]	2
Co-Training (NB)	[0.0051 , 0.0459]	2
Co-Training (SMO)	[-0.01025 , 0.02285]	2
Democratic-Co	[-0.01755 , 0.00275]	2
SETRED	[-0.01245 , 0.025]	2
TriTraining (NN)	[-0.0091 , 0.0288]	2
TriTraining (C45)	[-0.01105 , -0.0018]	2
TriTraining (NB)	[0.0029 , 0.0444]	2
TriTraining (SMO)	[-0.00845 , 0.0336]	2
DE-TriTraining (NN)	[-0.00485 , 0.0249]	2
DE-TriTraining (C45)	[0.0011 , 0.0168]	2
DE-TriTraining (NB)	[0.01615 , 0.05015]	2
DE-TriTraining (SMO)	[-0.00395 , 0.0265]	2
CoForest	[-0.02485 , 0.0028]	2
Rasco (NN)	[0.0948 , 0.15505]	2
Rasco (C45)	[0.0419 , 0.1085]	2
Rasco (NB)	[0.04575 , 0.10155]	2
Rasco (SMO)	[0.05765 , 0.13575]	2
Co-Bagging (NN)	[-0.00715 , 0.0188]	2
Co-Bagging (C45)	[-0.00945 , -0.0019]	2
Co-Bagging (NB)	[0.0095 , 0.04415]	2
Co-Bagging (SMO)	[-0.0091 , 0.0288]	2
Rel-Rasco (NN)	[0.0925 , 0.15445]	2
Rel-Rasco (C45)	[0.042 , 0.1072]	2
Rel-Rasco (NB)	[0.04225 , 0.10115]	2
Rel-Rasco (SMO)	[0.05995 , 0.1419]	2
CLCC	[0.0292 , 0.09565]	2
APSSC	[0.0109 , 0.06335]	2
SNNRCE	[-0.01495 , 0.01865]	2
ADE-CoForest	[-0.00205 , 0.0305]	2

Table 6: Confidence intervals for algorithm Self-Training (C45) ( $\alpha=0.95$ )

### 3 Detailed results for Self-Training (NB)

#### 3.1 Results

VS	$R^+$	$R^-$	Exact P-value	Asymptotic P-value
Self-Training (NN)	537.0	1003.0	-	1
Self-Training (C45)	364.0	1176.0	-	1
Self-Training (SMO)	543.0	997.0	-	1
Co-Training (NN)	596.0	889.0	-	1
Co-Training (C45)	367.5	1172.5	-	1
Co-Training (NB)	232.0	1253.0	-	1
Co-Training (SMO)	474.5	1065.5	-	1
Democratic-Co	153.0	1387.0	-	1
SETRED	492.0	1048.0	-	1
TriTraining (NN)	540.0	1000.0	-	1
TriTraining (C45)	306.0	1234.0	-	1
TriTraining (NB)	215.5	1324.5	-	1
TriTraining (SMO)	542.0	998.0	-	1
DE-TriTraining (NN)	507.0	1033.0	-	1
DE-TriTraining (C45)	436.0	1104.0	-	1
DE-TriTraining (NB)	481.0	1059.0	-	1
DE-TriTraining (SMO)	505.0	1035.0	-	1
CoForest	436.0	1104.0	-	1
Rasco (NN)	1283.0	257.0	-	0.000017
Rasco (C45)	1020.0	520.0	-	0.035639
Rasco (NB)	1083.5	456.5	-	0.008448
Rasco (SMO)	1096.0	444.0	-	0.006227
Co-Bagging (NN)	435.5	1104.5	-	1
Co-Bagging (C45)	315.0	1225.0	-	1
Co-Bagging (NB)	354.0	1186.0	-	1
Co-Bagging (SMO)	471.0	1069.0	-	1
Rel-Rasco (NN)	1278.5	261.5	-	0.00002
Rel-Rasco (C45)	1015.0	525.0	-	0.039693
Rel-Rasco (NB)	1100.5	439.5	-	0.005451
Rel-Rasco (SMO)	1105.0	435.0	-	0.004939
CLCC	911.0	629.0	-	0.235794
APSSC	709.0	831.0	-	1
SNNRCE	431.0	1109.0	-	1
ADE-CoForest	544.0	996.0	-	1

Table 7: Results obtained by the Wilcoxon test for algorithm Self-Training (NB)

#### 3.2 Confidence intervals for Median of differences



$\alpha=0.90$	Confidence interval	Exact confidence
Self-Training (NN)	[-0.054 , -0.0035]	2
Self-Training (C45)	[-0.0599 , -0.02325]	2
Self-Training (SMO)	[-0.0497 , -0.0044]	2
Co-Training (NN)	[-0.04215 , 0.0049]	2
Co-Training (C45)	[-0.0583 , -0.02305]	2
Co-Training (NB)	[-0.01885 , -0.0091]	2
Co-Training (SMO)	[-0.05455 , -0.00995]	2
Democratic-Co	[-0.0579 , -0.0346]	2
SETRED	[-0.05655 , -0.00895]	2
TriTraining (NN)	[-0.05395 , -0.00395]	2
TriTraining (C45)	[-0.065 , -0.02905]	2
TriTraining (NB)	[-0.02225 , -0.01035]	2
TriTraining (SMO)	[-0.04895 , -0.0045]	2
DE-TriTraining (NN)	[-0.0427 , -0.0061]	2
DE-TriTraining (C45)	[-0.0478 , -0.0151]	2
DE-TriTraining (NB)	[-0.0188 , -0.00385]	2
DE-TriTraining (SMO)	[-0.0482 , -0.00735]	2
CoForest	[-0.0663 , -0.0204]	2
Rasco (NN)	[0.0455 , 0.10615]	2
Rasco (C45)	[0.00755 , 0.06665]	2
Rasco (NB)	[0.00535 , 0.0409]	2
Rasco (SMO)	[0.019 , 0.08525]	2
Co-Bagging (NN)	[-0.05085 , -0.013]	2
Co-Bagging (C45)	[-0.06565 , -0.02865]	2
Co-Bagging (NB)	[-0.0181 , -0.00725]	2
Co-Bagging (SMO)	[-0.0511 , -0.00935]	2
Rel-Rasco (NN)	[0.04465 , 0.1053]	2
Rel-Rasco (C45)	[0.00715 , 0.06375]	2
Rel-Rasco (NB)	[0.00535 , 0.0316]	2
Rel-Rasco (SMO)	[0.02085 , 0.0894]	2
CLCC	[-0.0044 , 0.02685]	2
APSSC	[-0.027 , 0.0143]	2
SNNRCE	[-0.0586 , -0.0139]	2
ADE-CoForest	[-0.03975 , -0.00345]	2

Table 8: Confidence intervals for algorithm Self-Training (NB) ( $\alpha=0.90$ )

$\alpha=0.95$	Confidence interval	Exact confidence
Self-Training (NN)	[-0.06125 , 0.0002]	2
Self-Training (C45)	[-0.0638 , -0.0197]	2
Self-Training (SMO)	[-0.05585 , 0.00065]	2
Co-Training (NN)	[-0.04875 , 0.0096]	2
Co-Training (C45)	[-0.06155 , -0.0189]	2
Co-Training (NB)	[-0.01965 , -0.00775]	2
Co-Training (SMO)	[-0.0583 , -0.0058]	2
Democratic-Co	[-0.0615 , -0.0318]	2
SETRED	[-0.06315 , -0.00335]	2
TriTraining (NN)	[-0.05905 , 0.0004]	2
TriTraining (C45)	[-0.06905 , -0.02535]	2
TriTraining (NB)	[-0.0232 , -0.0093]	2
TriTraining (SMO)	[-0.0542 , 0.00035]	2
DE-TriTraining (NN)	[-0.0469 , -0.00295]	2
DE-TriTraining (C45)	[-0.0507 , -0.0119]	2
DE-TriTraining (NB)	[-0.0202 , -0.00235]	2
DE-TriTraining (SMO)	[-0.0526 , -0.0026]	2
CoForest	[-0.072 , -0.01545]	2
Rasco (NN)	[0.04125 , 0.1159]	2
Rasco (C45)	[0.00245 , 0.0748]	2
Rasco (NB)	[0.00335 , 0.0464]	2
Rasco (SMO)	[0.0143 , 0.09185]	2
Co-Bagging (NN)	[-0.05585 , -0.0092]	2
Co-Bagging (C45)	[-0.06955 , -0.0247]	2
Co-Bagging (NB)	[-0.0193 , -0.00635]	2
Co-Bagging (SMO)	[-0.0555 , -0.0062]	2
Rel-Rasco (NN)	[0.0401 , 0.11295]	2
Rel-Rasco (C45)	[0.0017 , 0.07195]	2
Rel-Rasco (NB)	[0.00345 , 0.03555]	2
Rel-Rasco (SMO)	[0.01505 , 0.0972]	2
CLCC	[-0.00655 , 0.0329]	2
APSSC	[-0.0312 , 0.01965]	2
SNNRCE	[-0.06445 , -0.0096]	2
ADE-CoForest	[-0.0441 , 0.0002]	2

Table 9: Confidence intervals for algorithm Self-Training (NB) ( $\alpha=0.95$ )

## 4 Detailed results for Self-Training (SMO)

### 4.1 Results

VS	$R^+$	$R^-$	Exact P-value	Asymptotic P-value
Self-Training (NN)	708.0	832.0	-	1
Self-Training (C45)	603.5	936.5	-	1
Self-Training (NB)	997.0	543.0	-	0.056376
Co-Training (NN)	879.5	605.5	-	0.235946
Co-Training (C45)	616.0	924.0	-	1
Co-Training (NB)	915.0	625.0	-	0.22233
Co-Training (SMO)	518.0	967.0	-	1
Democratic-Co	568.5	971.5	-	1
SETRED	646.0	839.0	-	1
TriTraining (NN)	717.5	822.5	-	1
TriTraining (C45)	533.5	1006.5	-	1
TriTraining (NB)	858.5	681.5	-	0.455382
TriTraining (SMO)	745.5	739.5	-	0.975671
DE-TriTraining (NN)	691.5	848.5	-	1
DE-TriTraining (C45)	746.0	794.0	-	1
DE-TriTraining (NB)	961.0	579.0	-	0.108606
DE-TriTraining (SMO)	637.0	848.0	-	1
CoForest	637.0	903.0	-	1
Rasco (NN)	1477.0	63.0	-	0
Rasco (C45)	1228.0	312.0	-	0.000122
Rasco (NB)	1154.0	386.0	-	0.00126
Rasco (SMO)	1365.0	175.0	-	0.000001
Co-Bagging (NN)	671.0	869.0	-	1
Co-Bagging (C45)	544.0	996.0	-	1
Co-Bagging (NB)	909.0	631.0	-	0.242481
Co-Bagging (SMO)	624.5	915.5	-	1
Rel-Rasco (NN)	1456.0	84.0	-	0
Rel-Rasco (C45)	1224.0	316.0	-	0.000136
Rel-Rasco (NB)	1149.0	391.0	-	0.001474
Rel-Rasco (SMO)	1387.0	153.0	-	0
CLCC	1141.0	399.0	-	0.001854
APSSC	970.0	570.0	-	0.092977
SNNRCE	619.5	865.5	-	1
ADE-CoForest	868.0	672.0	-	0.408718

Table 10: Results obtained by the Wilcoxon test for algorithm Self-Training (SMO)

### 4.2 Confidence intervals for Median of differences

$\alpha=0.90$	Confidence interval	Exact confidence
Self-Training (NN)	[-0.0176 , 0.0093]	2
Self-Training (C45)	[-0.02865 , 0.00335]	2
Self-Training (NB)	[0.0044 , 0.0497]	2
Co-Training (NN)	[-0.00525 , 0.0237]	2
Co-Training (C45)	[-0.0277 , 0.00355]	2
Co-Training (NB)	[-0.00535 , 0.0371]	2
Co-Training (SMO)	[-0.0084 , -0.00045]	2
Democratic-Co	[-0.0307 , -0.0004]	2
SETRED	[-0.02155 , 0.00685]	2
TriTraining (NN)	[-0.01595 , 0.0102]	2
TriTraining (C45)	[-0.0341 , -0.0035]	2
TriTraining (NB)	[-0.0104 , 0.03655]	2
TriTraining (SMO)	[-0.0042 , 0.0038]	2
DE-TriTraining (NN)	[-0.01875 , 0.008]	2
DE-TriTraining (C45)	[-0.0165 , 0.0114]	2
DE-TriTraining (NB)	[-0.0003 , 0.0431]	2
DE-TriTraining (SMO)	[-0.01765 , 0.00495]	2
CoForest	[-0.0263 , 0.0046]	2
Rasco (NN)	[0.0787 , 0.1329]	2
Rasco (C45)	[0.03825 , 0.09345]	2
Rasco (NB)	[0.0289 , 0.085]	2
Rasco (SMO)	[0.04675 , 0.106]	2
Co-Bagging (NN)	[-0.02225 , 0.0057]	2
Co-Bagging (C45)	[-0.0339 , -0.00235]	2
Co-Bagging (NB)	[-0.00635 , 0.03505]	2
Co-Bagging (SMO)	[-0.0094 , 0.00105]	2
Rel-Rasco (NN)	[0.0764 , 0.1314]	2
Rel-Rasco (C45)	[0.0361 , 0.0891]	2
Rel-Rasco (NB)	[0.0295 , 0.08395]	2
Rel-Rasco (SMO)	[0.04935 , 0.1151]	2
CLCC	[0.0244 , 0.07345]	2
APSSC	[0.00055 , 0.04465]	2
SNNRCE	[-0.0265 , 0.00385]	2
ADE-CoForest	[-0.0063 , 0.01985]	2

Table 11: Confidence intervals for algorithm Self-Training (SMO) ( $\alpha=0.90$ )

$\alpha=0.95$	Confidence interval	Exact confidence
Self-Training (NN)	[-0.0211 , 0.01225]	2
Self-Training (C45)	[-0.0318 , 0.00605]	2
Self-Training (NB)	[-0.00065 , 0.05585]	2
Co-Training (NN)	[-0.0104 , 0.02645]	2
Co-Training (C45)	[-0.03045 , 0.00695]	2
Co-Training (NB)	[-0.01005 , 0.04285]	2
Co-Training (SMO)	[-0.0097 , 0]	2
Democratic-Co	[-0.036 , 0.0017]	2
SETRED	[-0.02465 , 0.00925]	2
TriTraining (NN)	[-0.0182 , 0.01265]	2
TriTraining (C45)	[-0.03675 , -0.0002]	2
TriTraining (NB)	[-0.01475 , 0.04075]	2
TriTraining (SMO)	[-0.00635 , 0.00535]	2
DE-TriTraining (NN)	[-0.0226 , 0.0104]	2
DE-TriTraining (C45)	[-0.0205 , 0.0145]	2
DE-TriTraining (NB)	[-0.00595 , 0.04665]	2
DE-TriTraining (SMO)	[-0.02075 , 0.00715]	2
CoForest	[-0.0289 , 0.0075]	2
Rasco (NN)	[0.0745 , 0.1396]	2
Rasco (C45)	[0.03235 , 0.09935]	2
Rasco (NB)	[0.02245 , 0.0914]	2
Rasco (SMO)	[0.0423 , 0.1133]	2
Co-Bagging (NN)	[-0.0256 , 0.00825]	2
Co-Bagging (C45)	[-0.03635 , 0.0004]	2
Co-Bagging (NB)	[-0.01035 , 0.0399]	2
Co-Bagging (SMO)	[-0.0111 , 0.002]	2
Rel-Rasco (NN)	[0.0721 , 0.13695]	2
Rel-Rasco (C45)	[0.03075 , 0.0948]	2
Rel-Rasco (NB)	[0.02415 , 0.09045]	2
Rel-Rasco (SMO)	[0.0457 , 0.1198]	2
CLCC	[0.0185 , 0.0794]	2
APSSC	[-0.0036 , 0.0482]	2
SNNRCE	[-0.02965 , 0.00665]	2
ADE-CoForest	[-0.0088 , 0.0235]	2

Table 12: Confidence intervals for algorithm Self-Training (SMO) ( $\alpha=0.95$ )

## 5 Detailed results for Co-Training (NN)

### 5.1 Results

VS	$R^+$	$R^-$	Exact P-value	Asymptotic P-value
Self-Training (NN)	491.5	993.5	-	1
Self-Training (C45)	528.0	1012.0	-	1
Self-Training (NB)	889.0	596.0	-	0.20562
Self-Training (SMO)	605.5	879.5	-	1
Co-Training (C45)	570.0	970.0	-	1
Co-Training (NB)	794.0	746.0	-	0.837358
Co-Training (SMO)	495.0	1045.0	-	1
Democratic-Co	429.0	1111.0	-	1
SETRED	373.5	1111.5	-	1
TriTraining (NN)	524.0	1016.0	-	1
TriTraining (C45)	455.0	1085.0	-	1
TriTraining (NB)	789.0	751.0	-	0.870083
TriTraining (SMO)	572.5	967.5	-	1
DE-TriTraining (NN)	635.5	904.5	-	1
DE-TriTraining (C45)	556.0	984.0	-	1
DE-TriTraining (NB)	838.0	702.0	-	0.566015
DE-TriTraining (SMO)	500.0	1040.0	-	1
CoForest	456.0	1084.0	-	1
Rasco (NN)	1449.0	91.0	-	0
Rasco (C45)	1127.0	413.0	-	0.002741
Rasco (NB)	1100.0	440.0	-	0.005621
Rasco (SMO)	1165.0	375.0	-	0.000921
Co-Bagging (NN)	449.0	1091.0	-	1
Co-Bagging (C45)	457.0	1083.0	-	1
Co-Bagging (NB)	815.0	725.0	-	0.701848
Co-Bagging (SMO)	513.0	1027.0	-	1
Rel-Rasco (NN)	1439.0	101.0	-	0
Rel-Rasco (C45)	1124.0	416.0	-	0.002946
Rel-Rasco (NB)	1087.0	453.0	-	0.007745
Rel-Rasco (SMO)	1171.0	369.0	-	0.000768
CLCC	1059.5	480.5	-	0.014897
APSSC	948.5	591.5	-	0.132456
SNNRCE	281.5	1258.5	-	1
ADE-CoForest	662.5	877.5	-	1

Table 13: Results obtained by the Wilcoxon test for algorithm Co-Training (NN)

### 5.2 Confidence intervals for Median of differences

$\alpha=0.90$	Confidence interval	Exact confidence
Self-Training (NN)	[-0.0159 , -0.00095]	2
Self-Training (C45)	[-0.03515 , -0.00545]	2
Self-Training (NB)	[-0.0049 , 0.04215]	2
Self-Training (SMO)	[-0.0237 , 0.00525]	2
Co-Training (C45)	[-0.0333 , -0.0004]	2
Co-Training (NB)	[-0.01705 , 0.0264]	2
Co-Training (SMO)	[-0.032 , -0.0058]	2
Democratic-Co	[-0.04065 , -0.01265]	2
SETRED	[-0.019 , -0.0036]	2
TriTraining (NN)	[-0.0169 , -0.00075]	2
TriTraining (C45)	[-0.04205 , -0.0118]	2
TriTraining (NB)	[-0.0185 , 0.02665]	2
TriTraining (SMO)	[-0.026 , -0.0002]	2
DE-TriTraining (NN)	[-0.0156 , 0.0033]	2
DE-TriTraining (C45)	[-0.02635 , -0.0022]	2
DE-TriTraining (NB)	[-0.01195 , 0.02805]	2
DE-TriTraining (SMO)	[-0.0258 , -0.0042]	2
CoForest	[-0.0355 , -0.01095]	2
Rasco (NN)	[0.06 , 0.1253]	2
Rasco (C45)	[0.02795 , 0.09505]	2
Rasco (NB)	[0.01875 , 0.0789]	2
Rasco (SMO)	[0.0335 , 0.11325]	2
Co-Bagging (NN)	[-0.02185 , -0.0053]	2
Co-Bagging (C45)	[-0.04015 , -0.0095]	2
Co-Bagging (NB)	[-0.01445 , 0.02525]	2
Co-Bagging (SMO)	[-0.02945 , -0.0046]	2
Rel-Rasco (NN)	[0.05975 , 0.1248]	2
Rel-Rasco (C45)	[0.02595 , 0.0904]	2
Rel-Rasco (NB)	[0.0187 , 0.07795]	2
Rel-Rasco (SMO)	[0.0363 , 0.1206]	2
CLCC	[0.01045 , 0.06895]	2
APSSC	[-0.00145 , 0.0361]	2
SNNRCE	[-0.0216 , -0.0079]	2
ADE-CoForest	[-0.0167 , 0.00725]	2

Table 14: Confidence intervals for algorithm Co-Training (NN) ( $\alpha=0.90$ )

$\alpha=0.95$	Confidence interval	Exact confidence
Self-Training (NN)	[-0.0179 , -0.0004]	2
Self-Training (C45)	[-0.03945 , -0.001]	2
Self-Training (NB)	[-0.0096 , 0.04875]	2
Self-Training (SMO)	[-0.02645 , 0.0104]	2
Co-Training (C45)	[-0.0369 , 0.0025]	2
Co-Training (NB)	[-0.02035 , 0.03095]	2
Co-Training (SMO)	[-0.03525 , -0.0027]	2
Democratic-Co	[-0.04475 , -0.0096]	2
SETRED	[-0.02085 , -0.0026]	2
TriTraining (NN)	[-0.01915 , -0.00015]	2
TriTraining (C45)	[-0.04495 , -0.00775]	2
TriTraining (NB)	[-0.02365 , 0.032]	2
TriTraining (SMO)	[-0.0289 , 0.00295]	2
DE-TriTraining (NN)	[-0.01815 , 0.00535]	2
DE-TriTraining (C45)	[-0.0288 , 0.00125]	2
DE-TriTraining (NB)	[-0.0154 , 0.03285]	2
DE-TriTraining (SMO)	[-0.02765 , -0.00145]	2
CoForest	[-0.0386 , -0.008]	2
Rasco (NN)	[0.05675 , 0.1332]	2
Rasco (C45)	[0.0208 , 0.1022]	2
Rasco (NB)	[0.014 , 0.08665]	2
Rasco (SMO)	[0.0274 , 0.1222]	2
Co-Bagging (NN)	[-0.02415 , -0.00365]	2
Co-Bagging (C45)	[-0.04415 , -0.0071]	2
Co-Bagging (NB)	[-0.01855 , 0.0299]	2
Co-Bagging (SMO)	[-0.03275 , -0.00205]	2
Rel-Rasco (NN)	[0.0561 , 0.13255]	2
Rel-Rasco (C45)	[0.01945 , 0.09845]	2
Rel-Rasco (NB)	[0.01235 , 0.08595]	2
Rel-Rasco (SMO)	[0.0294 , 0.1296]	2
CLCC	[0.0067 , 0.0758]	2
APSSC	[-0.00445 , 0.0403]	2
SNNRCE	[-0.0239 , -0.00695]	2
ADE-CoForest	[-0.0183 , 0.0117]	2

Table 15: Confidence intervals for algorithm Co-Training (NN) ( $\alpha=0.95$ )



## 6 Detailed results for Co-Training (C45)

### 6.1 Results

VS	$R^+$	$R^-$	Exact P-value	Asymptotic P-value
Self-Training (NN)	827.0	658.0	-	0.463768
Self-Training (C45)	768.5	716.5	-	0.818554
Self-Training (NB)	1172.5	367.5	-	0.000725
Self-Training (SMO)	924.0	616.0	-	0.19503
Co-Training (NN)	970.0	570.0	-	0.092977
Co-Training (NB)	1057.0	483.0	-	0.016004
Co-Training (SMO)	841.0	699.0	-	0.549129
Democratic-Co	625.0	915.0	-	1
SETRED	815.5	724.5	-	0.699032
TriTraining (NN)	876.5	663.5	-	0.369482
TriTraining (C45)	342.0	1143.0	-	1
TriTraining (NB)	1034.0	506.0	-	0.026524
TriTraining (SMO)	901.0	639.0	-	0.270558
DE-TriTraining (NN)	882.0	658.0	-	0.344881
DE-TriTraining (C45)	974.0	566.0	-	0.085648
DE-TriTraining (NB)	1158.0	382.0	-	0.00108
DE-TriTraining (SMO)	935.0	605.0	-	0.165549
CoForest	559.5	980.5	-	1
Rasco (NN)	1514.0	26.0	-	0
Rasco (C45)	1531.0	9.0	-	0
Rasco (NB)	1337.5	202.5	-	0.000002
Rasco (SMO)	1406.0	134.0	-	0
Co-Bagging (NN)	863.0	677.0	-	0.433396
Co-Bagging (C45)	361.0	1124.0	-	1
Co-Bagging (NB)	1092.5	447.5	-	0.006689
Co-Bagging (SMO)	886.5	653.5	-	0.325929
Rel-Rasco (NN)	1512.0	28.0	-	0
Rel-Rasco (C45)	1525.0	15.0	-	0
Rel-Rasco (NB)	1334.0	206.0	-	0.000002
Rel-Rasco (SMO)	1407.0	133.0	-	0
CLCC	1260.5	279.5	-	0.000038
APSSC	1082.5	457.5	-	0.008659
SNNRCE	791.0	749.0	-	0.857044
ADE-CoForest	956.0	584.0	-	0.117762

Table 16: Results obtained by the Wilcoxon test for algorithm Co-Training (C45)

### 6.2 Confidence intervals for Median of differences

$\alpha=0.90$	Confidence interval	Exact confidence
Self-Training (NN)	[-0.00855 , 0.028]	2
Self-Training (C45)	[-0.00205 , 0.00245]	2
Self-Training (NB)	[0.02305 , 0.0583]	2
Self-Training (SMO)	[-0.00355 , 0.0277]	2
Co-Training (NN)	[0.0004 , 0.0333]	2
Co-Training (NB)	[0.0076 , 0.04125]	2
Co-Training (SMO)	[-0.00885 , 0.01895]	2
Democratic-Co	[-0.0166 , 0.0012]	2
SETRED	[-0.0119 , 0.0225]	2
TriTraining (NN)	[-0.0074 , 0.026]	2
TriTraining (C45)	[-0.0112 , -0.0023]	2
TriTraining (NB)	[0.0062 , 0.0393]	2
TriTraining (SMO)	[-0.00515 , 0.02565]	2
DE-TriTraining (NN)	[-0.006 , 0.0211]	2
DE-TriTraining (C45)	[0.0004 , 0.0143]	2
DE-TriTraining (NB)	[0.01595 , 0.04535]	2
DE-TriTraining (SMO)	[-0.00235 , 0.02295]	2
CoForest	[-0.024 , -0.00105]	2
Rasco (NN)	[0.09685 , 0.14735]	2
Rasco (C45)	[0.04755 , 0.10645]	2
Rasco (NB)	[0.04795 , 0.09445]	2
Rasco (SMO)	[0.06595 , 0.1279]	2
Co-Bagging (NN)	[-0.007 , 0.0184]	2
Co-Bagging (C45)	[-0.0107 , -0.00295]	2
Co-Bagging (NB)	[0.01145 , 0.0407]	2
Co-Bagging (SMO)	[-0.0068 , 0.0231]	2
Rel-Rasco (NN)	[0.09675 , 0.1455]	2
Rel-Rasco (C45)	[0.04795 , 0.1022]	2
Rel-Rasco (NB)	[0.0455 , 0.09335]	2
Rel-Rasco (SMO)	[0.0696 , 0.13175]	2
CLCC	[0.03275 , 0.0843]	2
APSSC	[0.0137 , 0.05725]	2
SNNRCE	[-0.0144 , 0.01615]	2
ADE-CoForest	[-0.0007 , 0.0259]	2

Table 17: Confidence intervals for algorithm Co-Training (C45) ( $\alpha=0.90$ )

$\alpha=0.95$	Confidence interval	Exact confidence
Self-Training (NN)	[-0.0115 , 0.03075]	2
Self-Training (C45)	[-0.00255 , 0.0032]	2
Self-Training (NB)	[0.0189 , 0.06155]	2
Self-Training (SMO)	[-0.00695 , 0.03045]	2
Co-Training (NN)	[-0.0025 , 0.0369]	2
Co-Training (NB)	[0.0044 , 0.04415]	2
Co-Training (SMO)	[-0.0117 , 0.02165]	2
Democratic-Co	[-0.01845 , 0.0032]	2
SETRED	[-0.015 , 0.0257]	2
TriTraining (NN)	[-0.0104 , 0.0298]	2
TriTraining (C45)	[-0.0122 , -0.0018]	2
TriTraining (NB)	[0.00295 , 0.0445]	2
TriTraining (SMO)	[-0.00875 , 0.03205]	2
DE-TriTraining (NN)	[-0.0081 , 0.0239]	2
DE-TriTraining (C45)	[-0.0009 , 0.0161]	2
DE-TriTraining (NB)	[0.0133 , 0.04825]	2
DE-TriTraining (SMO)	[-0.00485 , 0.02515]	2
CoForest	[-0.0264 , 0.00135]	2
Rasco (NN)	[0.09165 , 0.15325]	2
Rasco (C45)	[0.04545 , 0.1121]	2
Rasco (NB)	[0.04425 , 0.0986]	2
Rasco (SMO)	[0.0616 , 0.1356]	2
Co-Bagging (NN)	[-0.01005 , 0.021]	2
Co-Bagging (C45)	[-0.01155 , -0.0022]	2
Co-Bagging (NB)	[0.0087 , 0.04325]	2
Co-Bagging (SMO)	[-0.00925 , 0.027]	2
Rel-Rasco (NN)	[0.0919 , 0.152]	2
Rel-Rasco (C45)	[0.0456 , 0.10735]	2
Rel-Rasco (NB)	[0.0413 , 0.0983]	2
Rel-Rasco (SMO)	[0.06295 , 0.1398]	2
CLCC	[0.029 , 0.0923]	2
APSSC	[0.00975 , 0.06205]	2
SNNRCE	[-0.01775 , 0.01935]	2
ADE-CoForest	[-0.0034 , 0.0304]	2

Table 18: Confidence intervals for algorithm Co-Training (C45) ( $\alpha=0.95$ )

## 7 Detailed results for Co-Training (NB)

### 7.1 Results

VS	$R^+$	$R^-$	Exact P-value	Asymptotic P-value
Self-Training (NN)	633.0	907.0	-	1
Self-Training (C45)	485.0	1055.0	-	1
Self-Training (NB)	1253.0	232.0	-	0.000011
Self-Training (SMO)	625.0	915.0	-	1
Co-Training (NN)	746.0	794.0	-	1
Co-Training (C45)	483.0	1057.0	-	1
Co-Training (SMO)	586.0	954.0	-	1
Democratic-Co	226.5	1313.5	-	1
SETRED	588.5	951.5	-	1
TriTraining (NN)	624.0	916.0	-	1
TriTraining (C45)	409.0	1131.0	-	1
TriTraining (NB)	402.5	1137.5	-	1
TriTraining (SMO)	656.0	884.0	-	1
DE-TriTraining (NN)	667.5	872.5	-	1
DE-TriTraining (C45)	582.5	957.5	-	1
DE-TriTraining (NB)	838.0	702.0	-	0.565608
DE-TriTraining (SMO)	656.0	884.0	-	1
CoForest	510.0	1030.0	-	1
Rasco (NN)	1386.0	154.0	-	0
Rasco (C45)	1111.0	429.0	-	0.004219
Rasco (NB)	1374.0	166.0	-	0
Rasco (SMO)	1188.5	351.5	-	0.000441
Co-Bagging (NN)	565.0	975.0	-	1
Co-Bagging (C45)	432.0	1108.0	-	1
Co-Bagging (NB)	816.5	723.5	-	0.693125
Co-Bagging (SMO)	594.5	945.5	-	1
Rel-Rasco (NN)	1383.0	157.0	-	0
Rel-Rasco (C45)	1109.0	431.0	-	0.004448
Rel-Rasco (NB)	1410.0	130.0	-	0
Rel-Rasco (SMO)	1201.0	339.0	-	0.0003
CLCC	1109.5	430.5	-	0.004349
APSSC	808.0	732.0	-	0.747018
SNNRCE	526.0	1014.0	-	1
ADE-CoForest	680.0	860.0	-	1

Table 19: Results obtained by the Wilcoxon test for algorithm Co-Training (NB)

### 7.2 Confidence intervals for Median of differences

$\alpha=0.90$	Confidence interval	Exact confidence
Self-Training (NN)	[-0.0382 , 0.0058]	2
Self-Training (C45)	[-0.0421 , -0.00915]	2
Self-Training (NB)	[0.0091 , 0.01885]	2
Self-Training (SMO)	[-0.0371 , 0.00535]	2
Co-Training (NN)	[-0.0264 , 0.01705]	2
Co-Training (C45)	[-0.04125 , -0.0076]	2
Co-Training (SMO)	[-0.0411 , 0.00165]	2
Democratic-Co	[-0.0408 , -0.01905]	2
SETRED	[-0.04175 , 0.00105]	2
TriTraining (NN)	[-0.03795 , 0.0056]	2
TriTraining (C45)	[-0.04855 , -0.015]	2
TriTraining (NB)	[-0.0073 , -0.0022]	2
TriTraining (SMO)	[-0.036 , 0.0068]	2
DE-TriTraining (NN)	[-0.0271 , 0.00655]	2
DE-TriTraining (C45)	[-0.03015 , 0.0005]	2
DE-TriTraining (NB)	[-0.0034 , 0.0092]	2
DE-TriTraining (SMO)	[-0.0303 , 0.007]	2
CoForest	[-0.05215 , -0.0093]	2
Rasco (NN)	[0.0631 , 0.1271]	2
Rasco (C45)	[0.0219 , 0.08605]	2
Rasco (NB)	[0.0181 , 0.05695]	2
Rasco (SMO)	[0.03665 , 0.10405]	2
Co-Bagging (NN)	[-0.0337 , -0.00105]	2
Co-Bagging (C45)	[-0.04775 , -0.01375]	2
Co-Bagging (NB)	[-0.00205 , 0.00355]	2
Co-Bagging (SMO)	[-0.0394 , 0.0016]	2
Rel-Rasco (NN)	[0.06195 , 0.1259]	2
Rel-Rasco (C45)	[0.02045 , 0.08175]	2
Rel-Rasco (NB)	[0.0198 , 0.05475]	2
Rel-Rasco (SMO)	[0.03715 , 0.10925]	2
CLCC	[0.01065 , 0.0423]	2
APSSC	[-0.01445 , 0.0261]	2
SNNRCE	[-0.0432 , -0.0039]	2
ADE-CoForest	[-0.0222 , 0.00865]	2

Table 20: Confidence intervals for algorithm Co-Training (NB) ( $\alpha=0.90$ )

$\alpha=0.95$	Confidence interval	Exact confidence
Self-Training (NN)	[-0.0443 , 0.01]	2
Self-Training (C45)	[-0.0459 , -0.0051]	2
Self-Training (NB)	[0.00775 , 0.01965]	2
Self-Training (SMO)	[-0.04285 , 0.01005]	2
Co-Training (NN)	[-0.03095 , 0.02035]	2
Co-Training (C45)	[-0.04415 , -0.0044]	2
Co-Training (SMO)	[-0.04555 , 0.00545]	2
Democratic-Co	[-0.0431 , -0.01655]	2
SETRED	[-0.0467 , 0.005]	2
TriTraining (NN)	[-0.04315 , 0.00995]	2
TriTraining (C45)	[-0.0524 , -0.0121]	2
TriTraining (NB)	[-0.00765 , -0.00175]	2
TriTraining (SMO)	[-0.04115 , 0.0126]	2
DE-TriTraining (NN)	[-0.0306 , 0.00925]	2
DE-TriTraining (C45)	[-0.03325 , 0.00395]	2
DE-TriTraining (NB)	[-0.0046 , 0.0111]	2
DE-TriTraining (SMO)	[-0.0341 , 0.01085]	2
CoForest	[-0.05645 , -0.00365]	2
Rasco (NN)	[0.05885 , 0.13585]	2
Rasco (C45)	[0.01675 , 0.09285]	2
Rasco (NB)	[0.0164 , 0.068]	2
Rasco (SMO)	[0.0301 , 0.1124]	2
Co-Bagging (NN)	[-0.03795 , 0.00185]	2
Co-Bagging (C45)	[-0.0521 , -0.0104]	2
Co-Bagging (NB)	[-0.0026 , 0.00435]	2
Co-Bagging (SMO)	[-0.04255 , 0.00695]	2
Rel-Rasco (NN)	[0.05745 , 0.13375]	2
Rel-Rasco (C45)	[0.01545 , 0.08985]	2
Rel-Rasco (NB)	[0.0179 , 0.0627]	2
Rel-Rasco (SMO)	[0.0293 , 0.11825]	2
CLCC	[0.00825 , 0.04565]	2
APSSC	[-0.0171 , 0.0311]	2
SNNRCE	[-0.04795 , -0.0009]	2
ADE-CoForest	[-0.0264 , 0.01145]	2

Table 21: Confidence intervals for algorithm Co-Training (NB) ( $\alpha=0.95$ )

## 8 Detailed results for Co-Training (SMO)

### 8.1 Results

VS	$R^+$	$R^-$	Exact P-value	Asymptotic P-value
Self-Training (NN)	901.0	639.0	-	0.270056
Self-Training (C45)	682.0	858.0	-	1
Self-Training (NB)	1065.5	474.5	-	0.013041
Self-Training (SMO)	967.0	518.0	-	0.051441
Co-Training (NN)	1045.0	495.0	-	0.020849
Co-Training (C45)	699.0	841.0	-	1
Co-Training (NB)	954.0	586.0	-	0.122143
Democratic-Co	586.0	954.0	-	1
SETRED	830.5	709.5	-	0.608912
TriTraining (NN)	919.0	621.0	-	0.209398
TriTraining (C45)	611.0	929.0	-	1
TriTraining (NB)	924.0	616.0	-	0.195498
TriTraining (SMO)	1026.0	514.0	-	0.031449
DE-TriTraining (NN)	824.0	716.0	-	0.647936
DE-TriTraining (C45)	834.0	706.0	-	0.588128
DE-TriTraining (NB)	1032.0	508.0	-	0.027688
DE-TriTraining (SMO)	791.0	749.0	-	0.856747
CoForest	696.0	844.0	-	1
Rasco (NN)	1513.0	27.0	-	0
Rasco (C45)	1353.0	187.0	-	0.000001
Rasco (NB)	1254.0	286.0	-	0.000049
Rasco (SMO)	1453.0	87.0	-	0
Co-Bagging (NN)	814.0	726.0	-	0.709264
Co-Bagging (C45)	613.0	927.0	-	1
Co-Bagging (NB)	955.0	585.0	-	0.120132
Co-Bagging (SMO)	818.0	667.0	-	0.507832
Rel-Rasco (NN)	1503.0	37.0	-	0
Rel-Rasco (C45)	1350.0	190.0	-	0.000001
Rel-Rasco (NB)	1249.0	291.0	-	0.000059
Rel-Rasco (SMO)	1461.0	79.0	-	0
CLCC	1165.0	375.0	-	0.000921
APSSC	1104.0	436.0	-	0.005069
SNNRCE	760.5	779.5	-	1
ADE-CoForest	900.0	640.0	-	0.274218

Table 22: Results obtained by the Wilcoxon test for algorithm Co-Training (SMO)

### 8.2 Confidence intervals for Median of differences

$\alpha=0.90$	Confidence interval	Exact confidence
Self-Training (NN)	[-0.004 , 0.0189]	2
Self-Training (C45)	[-0.0198 , 0.0077]	2
Self-Training (NB)	[0.00995 , 0.05455]	2
Self-Training (SMO)	[0.00045 , 0.0084]	2
Co-Training (NN)	[0.0058 , 0.032]	2
Co-Training (C45)	[-0.01895 , 0.00885]	2
Co-Training (NB)	[-0.00165 , 0.0411]	2
Democratic-Co	[-0.0257 , 0.00065]	2
SETRED	[-0.00775 , 0.01425]	2
TriTraining (NN)	[-0.0024 , 0.0177]	2
TriTraining (C45)	[-0.02435 , 0.00215]	2
TriTraining (NB)	[-0.00415 , 0.03975]	2
TriTraining (SMO)	[0.0009 , 0.00945]	2
DE-TriTraining (NN)	[-0.00895 , 0.0175]	2
DE-TriTraining (C45)	[-0.00865 , 0.01645]	2
DE-TriTraining (NB)	[0.00595 , 0.0442]	2
DE-TriTraining (SMO)	[-0.008 , 0.01015]	2
CoForest	[-0.02045 , 0.0083]	2
Rasco (NN)	[0.08735 , 0.14605]	2
Rasco (C45)	[0.05155 , 0.1058]	2
Rasco (NB)	[0.0384 , 0.0889]	2
Rasco (SMO)	[0.06345 , 0.1162]	2
Co-Bagging (NN)	[-0.0087 , 0.0126]	2
Co-Bagging (C45)	[-0.025 , 0.0025]	2
Co-Bagging (NB)	[-0.0012 , 0.0379]	2
Co-Bagging (SMO)	[-0.0023 , 0.00465]	2
Rel-Rasco (NN)	[0.0848 , 0.1453]	2
Rel-Rasco (C45)	[0.0474 , 0.09945]	2
Rel-Rasco (NB)	[0.0366 , 0.08735]	2
Rel-Rasco (SMO)	[0.06305 , 0.12235]	2
CLCC	[0.02265 , 0.08875]	2
APSSC	[0.01725 , 0.05765]	2
SNNRCE	[-0.01155 , 0.0099]	2
ADE-CoForest	[-0.00405 , 0.0266]	2

Table 23: Confidence intervals for algorithm Co-Training (SMO) ( $\alpha=0.90$ )



$\alpha=0.95$	Confidence interval	Exact confidence
Self-Training (NN)	[-0.0062 , 0.02055]	2
Self-Training (C45)	[-0.02285 , 0.01025]	2
Self-Training (NB)	[0.0058 , 0.0583]	2
Self-Training (SMO)	[0 , 0.0097]	2
Co-Training (NN)	[0.0027 , 0.03525]	2
Co-Training (C45)	[-0.02165 , 0.0117]	2
Co-Training (NB)	[-0.00545 , 0.04555]	2
Democratic-Co	[-0.02845 , 0.00395]	2
SETRED	[-0.01005 , 0.01665]	2
TriTraining (NN)	[-0.0044 , 0.0196]	2
TriTraining (C45)	[-0.027 , 0.0047]	2
TriTraining (NB)	[-0.00805 , 0.0445]	2
TriTraining (SMO)	[0.0004 , 0.0109]	2
DE-TriTraining (NN)	[-0.0115 , 0.021]	2
DE-TriTraining (C45)	[-0.0113 , 0.0191]	2
DE-TriTraining (NB)	[0.0026 , 0.0489]	2
DE-TriTraining (SMO)	[-0.00975 , 0.01275]	2
CoForest	[-0.0226 , 0.011]	2
Rasco (NN)	[0.08245 , 0.15375]	2
Rasco (C45)	[0.0461 , 0.1104]	2
Rasco (NB)	[0.03365 , 0.09395]	2
Rasco (SMO)	[0.0567 , 0.12515]	2
Co-Bagging (NN)	[-0.01115 , 0.0156]	2
Co-Bagging (C45)	[-0.0278 , 0.00485]	2
Co-Bagging (NB)	[-0.0042 , 0.04255]	2
Co-Bagging (SMO)	[-0.00305 , 0.0062]	2
Rel-Rasco (NN)	[0.08115 , 0.1516]	2
Rel-Rasco (C45)	[0.04395 , 0.1062]	2
Rel-Rasco (NB)	[0.03375 , 0.09235]	2
Rel-Rasco (SMO)	[0.05905 , 0.1294]	2
CLCC	[0.01895 , 0.0984]	2
APSSC	[0.01185 , 0.0616]	2
SNNRCE	[-0.0141 , 0.01215]	2
ADE-CoForest	[-0.00655 , 0.0297]	2

Table 24: Confidence intervals for algorithm Co-Training (SMO) ( $\alpha=0.95$ )

## 9 Detailed results for Democratic-Co

### 9.1 Results

VS	$R^+$	$R^-$	Exact P-value	Asymptotic P-value
Self-Training (NN)	1014.0	526.0	-	0.040506
Self-Training (C45)	921.5	618.5	-	0.20188
Self-Training (NB)	1387.0	153.0	-	0
Self-Training (SMO)	971.5	568.5	-	0.089882
Co-Training (NN)	1111.0	429.0	-	0.004219
Co-Training (C45)	915.0	625.0	-	0.221359
Co-Training (NB)	1313.5	226.5	-	0.000005
Co-Training (SMO)	954.0	586.0	-	0.122143
SETRED	970.0	570.0	-	0.092977
TriTraining (NN)	1021.0	519.0	-	0.034718
TriTraining (C45)	791.5	748.5	-	0.853605
TriTraining (NB)	1200.0	285.0	-	0.00008
TriTraining (SMO)	991.0	549.0	-	0.062922
DE-TriTraining (NN)	1095.0	445.0	-	0.006277
DE-TriTraining (C45)	1164.5	320.5	-	0.000267
DE-TriTraining (NB)	1399.0	141.0	-	0
DE-TriTraining (SMO)	1091.0	449.0	-	0.006947
CoForest	742.0	798.0	-	1
Rasco (NN)	1540.0	0.0	-	0
Rasco (C45)	1494.0	46.0	-	0
Rasco (NB)	1477.0	63.0	-	0
Rasco (SMO)	1436.0	104.0	-	0
Co-Bagging (NN)	1031.0	454.0	-	0.012641
Co-Bagging (C45)	808.0	732.0	-	0.746762
Co-Bagging (NB)	1337.0	203.0	-	0.000002
Co-Bagging (SMO)	977.5	562.5	-	0.081061
Rel-Rasco (NN)	1540.0	0.0	-	0
Rel-Rasco (C45)	1477.0	63.0	-	0
Rel-Rasco (NB)	1486.0	54.0	-	0
Rel-Rasco (SMO)	1440.0	100.0	-	0
CLCC	1427.0	113.0	-	0
APSSC	1212.0	328.0	-	0.000206
SNNRCE	966.0	574.0	-	0.098976
ADE-CoForest	1149.0	391.0	-	0.001458

Table 25: Results obtained by the Wilcoxon test for algorithm Democratic-Co

### 9.2 Confidence intervals for Median of differences

$\alpha=0.90$	Confidence interval	Exact confidence
Self-Training (NN)	[0.0041 , 0.0323]	2
Self-Training (C45)	[-0.0016 , 0.0153]	2
Self-Training (NB)	[0.0346 , 0.0579]	2
Self-Training (SMO)	[0.0004 , 0.0307]	2
Co-Training (NN)	[0.01265 , 0.04065]	2
Co-Training (C45)	[-0.0012 , 0.0166]	2
Co-Training (NB)	[0.01905 , 0.0408]	2
Co-Training (SMO)	[-0.00065 , 0.0257]	2
SETRED	[0.0003 , 0.0272]	2
TriTraining (NN)	[0.0036 , 0.0311]	2
TriTraining (C45)	[-0.00565 , 0.01035]	2
TriTraining (NB)	[0.0129 , 0.0379]	2
TriTraining (SMO)	[0.0016 , 0.03175]	2
DE-TriTraining (NN)	[0.00565 , 0.0265]	2
DE-TriTraining (C45)	[0.0077 , 0.02215]	2
DE-TriTraining (NB)	[0.0259 , 0.04735]	2
DE-TriTraining (SMO)	[0.00555 , 0.02675]	2
CoForest	[-0.01505 , 0.01275]	2
Rasco (NN)	[0.0973 , 0.15255]	2
Rasco (C45)	[0.05675 , 0.1072]	2
Rasco (NB)	[0.054 , 0.09865]	2
Rasco (SMO)	[0.06875 , 0.13355]	2
Co-Bagging (NN)	[0.0035 , 0.01985]	2
Co-Bagging (C45)	[-0.0063 , 0.01015]	2
Co-Bagging (NB)	[0.0185 , 0.03945]	2
Co-Bagging (SMO)	[0.00065 , 0.0281]	2
Rel-Rasco (NN)	[0.0962 , 0.1517]	2
Rel-Rasco (C45)	[0.0561 , 0.10415]	2
Rel-Rasco (NB)	[0.0561 , 0.0951]	2
Rel-Rasco (SMO)	[0.07105 , 0.1369]	2
CLCC	[0.03735 , 0.0834]	2
APSSC	[0.0223 , 0.06005]	2
SNNRCE	[0.0001 , 0.0199]	2
ADE-CoForest	[0.008 , 0.03055]	2

Table 26: Confidence intervals for algorithm Democratic-Co ( $\alpha=0.90$ )

$\alpha=0.95$	Confidence interval	Exact confidence
Self-Training (NN)	[0.0009 , 0.035]	2
Self-Training (C45)	[-0.00275 , 0.01755]	2
Self-Training (NB)	[0.0318 , 0.0615]	2
Self-Training (SMO)	[-0.0017 , 0.036]	2
Co-Training (NN)	[0.0096 , 0.04475]	2
Co-Training (C45)	[-0.0032 , 0.01845]	2
Co-Training (NB)	[0.01655 , 0.0431]	2
Co-Training (SMO)	[-0.00395 , 0.02845]	2
SETRED	[-0.0026 , 0.0301]	2
TriTraining (NN)	[0.00125 , 0.03425]	2
TriTraining (C45)	[-0.00735 , 0.01205]	2
TriTraining (NB)	[0.01145 , 0.03965]	2
TriTraining (SMO)	[-0.00075 , 0.03555]	2
DE-TriTraining (NN)	[0.0045 , 0.0301]	2
DE-TriTraining (C45)	[0.0066 , 0.0243]	2
DE-TriTraining (NB)	[0.0239 , 0.05015]	2
DE-TriTraining (SMO)	[0.00405 , 0.0291]	2
CoForest	[-0.01785 , 0.0155]	2
Rasco (NN)	[0.093 , 0.1605]	2
Rasco (C45)	[0.0525 , 0.1158]	2
Rasco (NB)	[0.05045 , 0.10385]	2
Rasco (SMO)	[0.0623 , 0.1396]	2
Co-Bagging (NN)	[0.00215 , 0.02115]	2
Co-Bagging (C45)	[-0.0076 , 0.01155]	2
Co-Bagging (NB)	[0.01725 , 0.0424]	2
Co-Bagging (SMO)	[-0.00135 , 0.0306]	2
Rel-Rasco (NN)	[0.0917 , 0.159]	2
Rel-Rasco (C45)	[0.0521 , 0.1112]	2
Rel-Rasco (NB)	[0.0534 , 0.10105]	2
Rel-Rasco (SMO)	[0.06495 , 0.14515]	2
CLCC	[0.0335 , 0.09395]	2
APSSC	[0.0195 , 0.063]	2
SNNRCE	[-0.00235 , 0.0218]	2
ADE-CoForest	[0.00585 , 0.03465]	2

Table 27: Confidence intervals for algorithm Democratic-Co ( $\alpha=0.95$ )

## 10 Detailed results for SETRED

### 10.1 Results

VS	$R^+$	$R^-$	Exact P-value	Asymptotic P-value
Self-Training (NN)	1138.5	401.5	-	0.001947
Self-Training (C45)	690.5	849.5	-	1
Self-Training (NB)	1048.0	492.0	-	0.019626
Self-Training (SMO)	839.0	646.0	-	0.402597
Co-Training (NN)	1111.5	373.5	-	0.001364
Co-Training (C45)	724.5	815.5	-	1
Co-Training (NB)	951.5	588.5	-	0.126887
Co-Training (SMO)	709.5	830.5	-	1
Democratic-Co	570.0	970.0	-	1
TriTraining (NN)	1093.0	447.0	-	0.006052
TriTraining (C45)	619.0	921.0	-	1
TriTraining (NB)	917.0	623.0	-	0.216038
TriTraining (SMO)	761.0	779.0	-	1
DE-TriTraining (NN)	887.5	652.5	-	0.321811
DE-TriTraining (C45)	731.0	809.0	-	1
DE-TriTraining (NB)	975.0	565.0	-	0.085107
DE-TriTraining (SMO)	704.0	836.0	-	1
CoForest	645.5	894.5	-	1
Rasco (NN)	1540.0	0.0	-	0
Rasco (C45)	1206.0	334.0	-	0.000255
Rasco (NB)	1205.0	335.0	-	0.000263
Rasco (SMO)	1283.5	256.5	-	0.000016
Co-Bagging (NN)	727.5	812.5	-	1
Co-Bagging (C45)	625.0	915.0	-	1
Co-Bagging (NB)	947.5	592.5	-	0.135452
Co-Bagging (SMO)	667.5	872.5	-	1
Rel-Rasco (NN)	1479.0	6.0	-	0
Rel-Rasco (C45)	1205.0	335.0	-	0.00026
Rel-Rasco (NB)	1184.0	356.0	-	0.000515
Rel-Rasco (SMO)	1296.0	244.0	-	0.00001
CLCC	1191.5	348.5	-	0.000395
APSSC	1150.5	389.5	-	0.001396
SNNRCE	479.5	1005.5	-	1
ADE-CoForest	852.0	688.0	-	0.48851

Table 28: Results obtained by the Wilcoxon test for algorithm SETRED

### 10.2 Confidence intervals for Median of differences

$\alpha=0.90$	Confidence interval	Exact confidence
Self-Training (NN)	[0.0006 , 0.00465]	2
Self-Training (C45)	[-0.022 , 0.0097]	2
Self-Training (NB)	[0.00895 , 0.05655]	2
Self-Training (SMO)	[-0.00685 , 0.02155]	2
Co-Training (NN)	[0.0036 , 0.019]	2
Co-Training (C45)	[-0.0225 , 0.0119]	2
Co-Training (NB)	[-0.00105 , 0.04175]	2
Co-Training (SMO)	[-0.01425 , 0.00775]	2
Democratic-Co	[-0.0272 , -0.0003]	2
TriTraining (NN)	[0.00105 , 0.0059]	2
TriTraining (C45)	[-0.0279 , 0.00365]	2
TriTraining (NB)	[-0.00535 , 0.0399]	2
TriTraining (SMO)	[-0.01135 , 0.0096]	2
DE-TriTraining (NN)	[-0.0028 , 0.0142]	2
DE-TriTraining (C45)	[-0.01495 , 0.0112]	2
DE-TriTraining (NB)	[0.00095 , 0.0466]	2
DE-TriTraining (SMO)	[-0.01105 , 0.00495]	2
CoForest	[-0.02105 , 0.005]	2
Rasco (NN)	[0.07185 , 0.14175]	2
Rasco (C45)	[0.03725 , 0.1102]	2
Rasco (NB)	[0.0346 , 0.09815]	2
Rasco (SMO)	[0.0464 , 0.13215]	2
Co-Bagging (NN)	[-0.00635 , 0.00495]	2
Co-Bagging (C45)	[-0.0282 , 0.0042]	2
Co-Bagging (NB)	[-0.00185 , 0.04145]	2
Co-Bagging (SMO)	[-0.01385 , 0.0046]	2
Rel-Rasco (NN)	[0.07075 , 0.139]	2
Rel-Rasco (C45)	[0.0368 , 0.1058]	2
Rel-Rasco (NB)	[0.03175 , 0.0936]	2
Rel-Rasco (SMO)	[0.0462 , 0.13915]	2
CLCC	[0.02785 , 0.0838]	2
APSSC	[0.0164 , 0.04795]	2
SNNRCE	[-0.0087 , -0.00145]	2
ADE-CoForest	[-0.0059 , 0.02225]	2

Table 29: Confidence intervals for algorithm SETRED ( $\alpha=0.90$ )

$\alpha=0.95$	Confidence interval	Exact confidence
Self-Training (NN)	[0.0003 , 0.005]	2
Self-Training (C45)	[-0.025 , 0.01245]	2
Self-Training (NB)	[0.00335 , 0.06315]	2
Self-Training (SMO)	[-0.00925 , 0.02465]	2
Co-Training (NN)	[0.0026 , 0.02085]	2
Co-Training (C45)	[-0.0257 , 0.015]	2
Co-Training (NB)	[-0.005 , 0.0467]	2
Co-Training (SMO)	[-0.01665 , 0.01005]	2
Democratic-Co	[-0.0301 , 0.0026]	2
TriTraining (NN)	[0.0008 , 0.00655]	2
TriTraining (C45)	[-0.0311 , 0.00635]	2
TriTraining (NB)	[-0.0092 , 0.0444]	2
TriTraining (SMO)	[-0.0133 , 0.01155]	2
DE-TriTraining (NN)	[-0.0043 , 0.0163]	2
DE-TriTraining (C45)	[-0.01775 , 0.01575]	2
DE-TriTraining (NB)	[-0.0028 , 0.05105]	2
DE-TriTraining (SMO)	[-0.01265 , 0.00665]	2
CoForest	[-0.0244 , 0.00875]	2
Rasco (NN)	[0.0679 , 0.15245]	2
Rasco (C45)	[0.03205 , 0.11895]	2
Rasco (NB)	[0.0285 , 0.10665]	2
Rasco (SMO)	[0.0401 , 0.14165]	2
Co-Bagging (NN)	[-0.0072 , 0.0063]	2
Co-Bagging (C45)	[-0.03185 , 0.00755]	2
Co-Bagging (NB)	[-0.0054 , 0.04635]	2
Co-Bagging (SMO)	[-0.01605 , 0.00635]	2
Rel-Rasco (NN)	[0.0663 , 0.15165]	2
Rel-Rasco (C45)	[0.0309 , 0.1149]	2
Rel-Rasco (NB)	[0.0269 , 0.1008]	2
Rel-Rasco (SMO)	[0.0407 , 0.1487]	2
CLCC	[0.0221 , 0.09105]	2
APSSC	[0.0131 , 0.0516]	2
SNNRCE	[-0.0091 , -0.00085]	2
ADE-CoForest	[-0.00755 , 0.0278]	2

Table 30: Confidence intervals for algorithm SETRED ( $\alpha=0.95$ )

## 11 Detailed results for TriTraining (NN)

### 11.1 Results

VS	$R^+$	$R^-$	Exact P-value	Asymptotic P-value
Self-Training (NN)	699.5	785.5	-	1
Self-Training (C45)	636.5	903.5	-	1
Self-Training (NB)	1000.0	540.0	-	0.053451
Self-Training (SMO)	822.5	717.5	-	0.656323
Co-Training (NN)	1016.0	524.0	-	0.037877
Co-Training (C45)	663.5	876.5	-	1
Co-Training (NB)	916.0	624.0	-	0.218684
Co-Training (SMO)	621.0	919.0	-	1
Democratic-Co	519.0	1021.0	-	1
SETRED	447.0	1093.0	-	1
TriTraining (C45)	565.0	975.0	-	1
TriTraining (NB)	895.5	644.5	-	0.290601
TriTraining (SMO)	631.0	909.0	-	1
DE-TriTraining (NN)	829.5	710.5	-	0.614796
DE-TriTraining (C45)	703.5	836.5	-	1
DE-TriTraining (NB)	939.0	601.0	-	0.15556
DE-TriTraining (SMO)	596.0	889.0	-	1
CoForest	627.0	913.0	-	1
Rasco (NN)	1531.0	9.0	-	0
Rasco (C45)	1186.0	354.0	-	0.000484
Rasco (NB)	1195.0	345.0	-	0.000364
Rasco (SMO)	1267.0	273.0	-	0.00003
Co-Bagging (NN)	620.0	920.0	-	1
Co-Bagging (C45)	571.0	969.0	-	1
Co-Bagging (NB)	907.0	633.0	-	0.2493
Co-Bagging (SMO)	551.0	989.0	-	1
Rel-Rasco (NN)	1527.0	13.0	-	0
Rel-Rasco (C45)	1188.0	352.0	-	0.000454
Rel-Rasco (NB)	1168.0	372.0	-	0.000831
Rel-Rasco (SMO)	1282.0	258.0	-	0.000018
CLCC	1174.0	366.0	-	0.000701
APSSC	1106.0	434.0	-	0.004812
SNNRCE	402.0	1138.0	-	1
ADE-CoForest	824.5	715.5	-	0.644581

Table 31: Results obtained by the Wilcoxon test for algorithm TriTraining (NN)

### 11.2 Confidence intervals for Median of differences



$\alpha=0.90$	Confidence interval	Exact confidence
Self-Training (NN)	[-0.00275 , 0.002]	2
Self-Training (C45)	[-0.026 , 0.0055]	2
Self-Training (NB)	[0.00395 , 0.05395]	2
Self-Training (SMO)	[-0.0102 , 0.01595]	2
Co-Training (NN)	[0.00075 , 0.0169]	2
Co-Training (C45)	[-0.026 , 0.0074]	2
Co-Training (NB)	[-0.0056 , 0.03795]	2
Co-Training (SMO)	[-0.0177 , 0.0024]	2
Democratic-Co	[-0.0311 , -0.0036]	2
SETRED	[-0.0059 , -0.00105]	2
TriTraining (C45)	[-0.0318 , -0.0005]	2
TriTraining (NB)	[-0.00875 , 0.03765]	2
TriTraining (SMO)	[-0.01465 , 0.0024]	2
DE-TriTraining (NN)	[-0.0062 , 0.0105]	2
DE-TriTraining (C45)	[-0.0167 , 0.0086]	2
DE-TriTraining (NB)	[-0.0033 , 0.0422]	2
DE-TriTraining (SMO)	[-0.01355 , 0.00155]	2
CoForest	[-0.02305 , 0.0032]	2
Rasco (NN)	[0.067 , 0.1387]	2
Rasco (C45)	[0.03395 , 0.1058]	2
Rasco (NB)	[0.031 , 0.0928]	2
Rasco (SMO)	[0.0417 , 0.1266]	2
Co-Bagging (NN)	[-0.0081 , 0.00165]	2
Co-Bagging (C45)	[-0.03155 , -0.00035]	2
Co-Bagging (NB)	[-0.00575 , 0.0369]	2
Co-Bagging (SMO)	[-0.01855 , -0.0011]	2
Rel-Rasco (NN)	[0.06635 , 0.1357]	2
Rel-Rasco (C45)	[0.0336 , 0.1023]	2
Rel-Rasco (NB)	[0.02755 , 0.0895]	2
Rel-Rasco (SMO)	[0.04165 , 0.1323]	2
CLCC	[0.0236 , 0.08]	2
APSSC	[0.01185 , 0.04445]	2
SNNRCE	[-0.012 , -0.00395]	2
ADE-CoForest	[-0.00825 , 0.02165]	2

Table 32: Confidence intervals for algorithm TriTraining (NN) ( $\alpha=0.90$ )

$\alpha=0.95$	Confidence interval	Exact confidence
Self-Training (NN)	[-0.00345 , 0.00265]	2
Self-Training (C45)	[-0.0288 , 0.0091]	2
Self-Training (NB)	[-0.0004 , 0.05905]	2
Self-Training (SMO)	[-0.01265 , 0.0182]	2
Co-Training (NN)	[0.00015 , 0.01915]	2
Co-Training (C45)	[-0.0298 , 0.0104]	2
Co-Training (NB)	[-0.00995 , 0.04315]	2
Co-Training (SMO)	[-0.0196 , 0.0044]	2
Democratic-Co	[-0.03425 , -0.00125]	2
SETRED	[-0.00655 , -0.0008]	2
TriTraining (C45)	[-0.03515 , 0.00255]	2
TriTraining (NB)	[-0.01335 , 0.0436]	2
TriTraining (SMO)	[-0.01695 , 0.00465]	2
DE-TriTraining (NN)	[-0.0077 , 0.0124]	2
DE-TriTraining (C45)	[-0.01945 , 0.0116]	2
DE-TriTraining (NB)	[-0.00665 , 0.0473]	2
DE-TriTraining (SMO)	[-0.0153 , 0.00265]	2
CoForest	[-0.02605 , 0.00655]	2
Rasco (NN)	[0.0631 , 0.14995]	2
Rasco (C45)	[0.02765 , 0.11405]	2
Rasco (NB)	[0.02425 , 0.1032]	2
Rasco (SMO)	[0.03445 , 0.135]	2
Co-Bagging (NN)	[-0.0091 , 0.0031]	2
Co-Bagging (C45)	[-0.0347 , 0.0029]	2
Co-Bagging (NB)	[-0.00905 , 0.042]	2
Co-Bagging (SMO)	[-0.02 , 0.00055]	2
Rel-Rasco (NN)	[0.0634 , 0.148]	2
Rel-Rasco (C45)	[0.02735 , 0.1097]	2
Rel-Rasco (NB)	[0.0233 , 0.09695]	2
Rel-Rasco (SMO)	[0.03575 , 0.1425]	2
CLCC	[0.0195 , 0.0871]	2
APSSC	[0.0076 , 0.0484]	2
SNNRCE	[-0.01275 , -0.0033]	2
ADE-CoForest	[-0.00985 , 0.02665]	2

Table 33: Confidence intervals for algorithm TriTraining (NN) ( $\alpha=0.95$ )

## 12 Detailed results for TriTraining (C45)

### 12.1 Results

VS	$R^+$	$R^-$	Exact P-value	Asymptotic P-value
Self-Training (NN)	958.0	582.0	-	0.114254
Self-Training (C45)	1201.5	338.5	-	0.000243
Self-Training (NB)	1234.0	306.0	-	0.000099
Self-Training (SMO)	1006.5	533.5	-	0.046834
Co-Training (NN)	1085.0	455.0	-	0.008207
Co-Training (C45)	1143.0	342.0	-	0.000511
Co-Training (NB)	1131.0	409.0	-	0.002353
Co-Training (SMO)	929.0	611.0	-	0.180511
Democratic-Co	748.5	791.5	-	1
SETRED	921.0	619.0	-	0.203842
TriTraining (NN)	975.0	565.0	-	0.085107
TriTraining (NB)	1075.0	410.0	-	0.004141
TriTraining (SMO)	973.0	567.0	-	0.088188
DE-TriTraining (NN)	1030.0	510.0	-	0.028394
DE-TriTraining (C45)	1220.0	320.0	-	0.00016
DE-TriTraining (NB)	1270.0	270.0	-	0.000027
DE-TriTraining (SMO)	1032.0	508.0	-	0.027852
CoForest	650.5	889.5	-	1
Rasco (NN)	1525.0	15.0	-	0
Rasco (C45)	1527.0	13.0	-	0
Rasco (NB)	1382.0	158.0	-	0
Rasco (SMO)	1430.5	109.5	-	0
Co-Bagging (NN)	969.5	570.5	-	0.093108
Co-Bagging (C45)	817.5	722.5	-	0.684745
Co-Bagging (NB)	1173.0	367.0	-	0.000723
Co-Bagging (SMO)	957.0	583.0	-	0.115806
Rel-Rasco (NN)	1525.0	15.0	-	0
Rel-Rasco (C45)	1518.0	22.0	-	0
Rel-Rasco (NB)	1382.0	158.0	-	0
Rel-Rasco (SMO)	1429.0	111.0	-	0
CLCC	1320.0	220.0	-	0.000004
APSSC	1160.5	379.5	-	0.001027
SNNRCE	871.0	669.0	-	0.393602
ADE-CoForest	1102.5	437.5	-	0.005222

Table 34: Results obtained by the Wilcoxon test for algorithm TriTraining (C45)

### 12.2 Confidence intervals for Median of differences

$\alpha=0.90$	Confidence interval	Exact confidence
Self-Training (NN)	[-0.0006 , 0.0333]	2
Self-Training (C45)	[0.0022 , 0.00945]	2
Self-Training (NB)	[0.02905 , 0.065]	2
Self-Training (SMO)	[0.0035 , 0.0341]	2
Co-Training (NN)	[0.0118 , 0.04205]	2
Co-Training (C45)	[0.0023 , 0.0112]	2
Co-Training (NB)	[0.015 , 0.04855]	2
Co-Training (SMO)	[-0.00215 , 0.02435]	2
Democratic-Co	[-0.01035 , 0.00565]	2
SETRED	[-0.00365 , 0.0279]	2
TriTraining (NN)	[0.0005 , 0.0318]	2
TriTraining (NB)	[0.0133 , 0.0474]	2
TriTraining (SMO)	[0.00055 , 0.03465]	2
DE-TriTraining (NN)	[0.00305 , 0.0292]	2
DE-TriTraining (C45)	[0.00935 , 0.0242]	2
DE-TriTraining (NB)	[0.02485 , 0.05415]	2
DE-TriTraining (SMO)	[0.0042 , 0.03]	2
CoForest	[-0.015 , 0.00425]	2
Rasco (NN)	[0.10435 , 0.1596]	2
Rasco (C45)	[0.0544 , 0.11385]	2
Rasco (NB)	[0.05585 , 0.1037]	2
Rasco (SMO)	[0.0712 , 0.1404]	2
Co-Bagging (NN)	[0.00065 , 0.0227]	2
Co-Bagging (C45)	[-0.00145 , 0.0028]	2
Co-Bagging (NB)	[0.01855 , 0.0479]	2
Co-Bagging (SMO)	[-0.00055 , 0.0291]	2
Rel-Rasco (NN)	[0.10455 , 0.15895]	2
Rel-Rasco (C45)	[0.05335 , 0.11215]	2
Rel-Rasco (NB)	[0.05245 , 0.1036]	2
Rel-Rasco (SMO)	[0.07315 , 0.14425]	2
CLCC	[0.0399 , 0.0942]	2
APSSC	[0.02115 , 0.0641]	2
SNNRCE	[-0.0071 , 0.0216]	2
ADE-CoForest	[0.00845 , 0.03475]	2

Table 35: Confidence intervals for algorithm TriTraining (C45) ( $\alpha=0.90$ )

$\alpha=0.95$	Confidence interval	Exact confidence
Self-Training (NN)	[-0.0038 , 0.03585]	2
Self-Training (C45)	[0.0018 , 0.01105]	2
Self-Training (NB)	[0.02535 , 0.06905]	2
Self-Training (SMO)	[0.0002 , 0.03675]	2
Co-Training (NN)	[0.00775 , 0.04495]	2
Co-Training (C45)	[0.0018 , 0.0122]	2
Co-Training (NB)	[0.0121 , 0.0524]	2
Co-Training (SMO)	[-0.0047 , 0.027]	2
Democratic-Co	[-0.01205 , 0.00735]	2
SETRED	[-0.00635 , 0.0311]	2
TriTraining (NN)	[-0.00255 , 0.03515]	2
TriTraining (NB)	[0.00995 , 0.0503]	2
TriTraining (SMO)	[-0.00185 , 0.0382]	2
DE-TriTraining (NN)	[0.0014 , 0.03225]	2
DE-TriTraining (C45)	[0.00775 , 0.02615]	2
DE-TriTraining (NB)	[0.022 , 0.0572]	2
DE-TriTraining (SMO)	[0.0013 , 0.03285]	2
CoForest	[-0.01625 , 0.00605]	2
Rasco (NN)	[0.10075 , 0.1646]	2
Rasco (C45)	[0.05125 , 0.12305]	2
Rasco (NB)	[0.05115 , 0.10905]	2
Rasco (SMO)	[0.06615 , 0.14615]	2
Co-Bagging (NN)	[-0.00225 , 0.0247]	2
Co-Bagging (C45)	[-0.0018 , 0.00325]	2
Co-Bagging (NB)	[0.0165 , 0.0511]	2
Co-Bagging (SMO)	[-0.00315 , 0.03295]	2
Rel-Rasco (NN)	[0.09865 , 0.16495]	2
Rel-Rasco (C45)	[0.0498 , 0.12]	2
Rel-Rasco (NB)	[0.0484 , 0.1092]	2
Rel-Rasco (SMO)	[0.0675 , 0.1501]	2
CLCC	[0.0357 , 0.1023]	2
APSSC	[0.01795 , 0.0681]	2
SNNRCE	[-0.0096 , 0.02405]	2
ADE-CoForest	[0.0065 , 0.0382]	2

Table 36: Confidence intervals for algorithm TriTraining (C45) ( $\alpha=0.95$ )

## 13 Detailed results for TriTraining (NB)

### 13.1 Results

VS	$R^+$	$R^-$	Exact P-value	Asymptotic P-value
Self-Training (NN)	654.0	886.0	-	1
Self-Training (C45)	499.0	1041.0	-	1
Self-Training (NB)	1324.5	215.5	-	0.000003
Self-Training (SMO)	681.5	858.5	-	1
Co-Training (NN)	751.0	789.0	-	1
Co-Training (C45)	506.0	1034.0	-	1
Co-Training (NB)	1137.5	402.5	-	0.001981
Co-Training (SMO)	616.0	924.0	-	1
Democratic-Co	285.0	1200.0	-	1
SETRED	623.0	917.0	-	1
TriTraining (NN)	644.5	895.5	-	1
TriTraining (C45)	410.0	1075.0	-	1
TriTraining (SMO)	677.0	863.0	-	1
DE-TriTraining (NN)	706.0	834.0	-	1
DE-TriTraining (C45)	612.0	873.0	-	1
DE-TriTraining (NB)	1026.0	514.0	-	0.030917
DE-TriTraining (SMO)	698.0	842.0	-	1
CoForest	510.0	1030.0	-	1
Rasco (NN)	1413.0	127.0	-	0
Rasco (C45)	1175.5	364.5	-	0.000661
Rasco (NB)	1426.0	114.0	-	0
Rasco (SMO)	1220.0	320.0	-	0.00016
Co-Bagging (NN)	594.0	891.0	-	1
Co-Bagging (C45)	444.5	1095.5	-	1
Co-Bagging (NB)	1134.5	405.5	-	0.00218
Co-Bagging (SMO)	628.0	912.0	-	1
Rel-Rasco (NN)	1415.0	125.0	-	0
Rel-Rasco (C45)	1162.0	378.0	-	0.001007
Rel-Rasco (NB)	1486.0	54.0	-	0
Rel-Rasco (SMO)	1224.0	316.0	-	0.00014
CLCC	1118.0	422.0	-	0.003501
APSSC	829.0	711.0	-	0.618115
SNNRCE	583.5	956.5	-	1
ADE-CoForest	722.5	817.5	-	1

Table 37: Results obtained by the Wilcoxon test for algorithm TriTraining (NB)

### 13.2 Confidence intervals for Median of differences

$\alpha=0.90$	Confidence interval	Exact confidence
Self-Training (NN)	[-0.03755 , 0.0092]	2
Self-Training (C45)	[-0.0412 , -0.00685]	2
Self-Training (NB)	[0.01035 , 0.02225]	2
Self-Training (SMO)	[-0.03655 , 0.0104]	2
Co-Training (NN)	[-0.02665 , 0.0185]	2
Co-Training (C45)	[-0.0393 , -0.0062]	2
Co-Training (NB)	[0.0022 , 0.0073]	2
Co-Training (SMO)	[-0.03975 , 0.00415]	2
Democratic-Co	[-0.0379 , -0.0129]	2
SETRED	[-0.0399 , 0.00535]	2
TriTraining (NN)	[-0.03765 , 0.00875]	2
TriTraining (C45)	[-0.0474 , -0.0133]	2
TriTraining (SMO)	[-0.03235 , 0.0116]	2
DE-TriTraining (NN)	[-0.0266 , 0.0115]	2
DE-TriTraining (C45)	[-0.0277 , 0.00555]	2
DE-TriTraining (NB)	[0.00085 , 0.0138]	2
DE-TriTraining (SMO)	[-0.03 , 0.0118]	2
CoForest	[-0.0504 , -0.00845]	2
Rasco (NN)	[0.0685 , 0.1288]	2
Rasco (C45)	[0.0277 , 0.085]	2
Rasco (NB)	[0.02275 , 0.0605]	2
Rasco (SMO)	[0.04115 , 0.10945]	2
Co-Bagging (NN)	[-0.03385 , 0.00315]	2
Co-Bagging (C45)	[-0.0466 , -0.0127]	2
Co-Bagging (NB)	[0.0024 , 0.0078]	2
Co-Bagging (SMO)	[-0.03505 , 0.0048]	2
Rel-Rasco (NN)	[0.06705 , 0.12575]	2
Rel-Rasco (C45)	[0.02635 , 0.08205]	2
Rel-Rasco (NB)	[0.0258 , 0.05885]	2
Rel-Rasco (SMO)	[0.03995 , 0.11275]	2
CLCC	[0.01275 , 0.0438]	2
APSSC	[-0.0121 , 0.0289]	2
SNNRCE	[-0.0421 , 0.00105]	2
ADE-CoForest	[-0.02 , 0.0145]	2

Table 38: Confidence intervals for algorithm TriTraining (NB) ( $\alpha=0.90$ )

$\alpha=0.95$	Confidence interval	Exact confidence
Self-Training (NN)	[-0.04305 , 0.01345]	2
Self-Training (C45)	[-0.0444 , -0.0029]	2
Self-Training (NB)	[0.0093 , 0.0232]	2
Self-Training (SMO)	[-0.04075 , 0.01475]	2
Co-Training (NN)	[-0.032 , 0.02365]	2
Co-Training (C45)	[-0.0445 , -0.00295]	2
Co-Training (NB)	[0.00175 , 0.00765]	2
Co-Training (SMO)	[-0.0445 , 0.00805]	2
Democratic-Co	[-0.03965 , -0.01145]	2
SETRED	[-0.0444 , 0.0092]	2
TriTraining (NN)	[-0.0436 , 0.01335]	2
TriTraining (C45)	[-0.0503 , -0.00995]	2
TriTraining (SMO)	[-0.03585 , 0.0158]	2
DE-TriTraining (NN)	[-0.03075 , 0.01425]	2
DE-TriTraining (C45)	[-0.0321 , 0.0086]	2
DE-TriTraining (NB)	[0.00035 , 0.0164]	2
DE-TriTraining (SMO)	[-0.03515 , 0.0158]	2
CoForest	[-0.0549 , -0.0043]	2
Rasco (NN)	[0.0637 , 0.136]	2
Rasco (C45)	[0.022 , 0.092]	2
Rasco (NB)	[0.02085 , 0.06485]	2
Rasco (SMO)	[0.03435 , 0.11645]	2
Co-Bagging (NN)	[-0.038 , 0.0063]	2
Co-Bagging (C45)	[-0.04985 , -0.0096]	2
Co-Bagging (NB)	[0.00185 , 0.0083]	2
Co-Bagging (SMO)	[-0.0405 , 0.0095]	2
Rel-Rasco (NN)	[0.0618 , 0.1341]	2
Rel-Rasco (C45)	[0.022 , 0.0874]	2
Rel-Rasco (NB)	[0.0237 , 0.0651]	2
Rel-Rasco (SMO)	[0.0354 , 0.12055]	2
CLCC	[0.00965 , 0.0496]	2
APSSC	[-0.01595 , 0.03535]	2
SNNRCE	[-0.0468 , 0.0042]	2
ADE-CoForest	[-0.0254 , 0.01735]	2

Table 39: Confidence intervals for algorithm TriTraining (NB) ( $\alpha=0.95$ )



## 14 Detailed results for TriTraining (SMO)

### 14.1 Results

VS	$R^+$	$R^-$	Exact P-value	Asymptotic P-value
Self-Training (NN)	861.5	678.5	-	0.439851
Self-Training (C45)	635.0	905.0	-	1
Self-Training (NB)	998.0	542.0	-	0.055557
Self-Training (SMO)	739.5	745.5	-	1
Co-Training (NN)	967.5	572.5	-	0.096426
Co-Training (C45)	639.0	901.0	-	1
Co-Training (NB)	884.0	656.0	-	0.336879
Co-Training (SMO)	514.0	1026.0	-	1
Democratic-Co	549.0	991.0	-	1
SETRED	779.0	761.0	-	0.936492
TriTraining (NN)	909.0	631.0	-	0.241988
TriTraining (C45)	567.0	973.0	-	1
TriTraining (NB)	863.0	677.0	-	0.432914
DE-TriTraining (NN)	786.0	699.0	-	0.7048
DE-TriTraining (C45)	719.5	765.5	-	1
DE-TriTraining (NB)	889.0	596.0	-	0.20562
DE-TriTraining (SMO)	699.0	841.0	-	1
CoForest	620.0	865.0	-	1
Rasco (NN)	1496.0	44.0	-	0
Rasco (C45)	1308.0	232.0	-	0.000006
Rasco (NB)	1173.0	367.0	-	0.000714
Rasco (SMO)	1463.0	77.0	-	0
Co-Bagging (NN)	758.5	781.5	-	1
Co-Bagging (C45)	573.0	967.0	-	1
Co-Bagging (NB)	872.0	668.0	-	0.389456
Co-Bagging (SMO)	609.5	930.5	-	1
Rel-Rasco (NN)	1492.0	48.0	-	0
Rel-Rasco (C45)	1299.0	241.0	-	0.000009
Rel-Rasco (NB)	1195.0	345.0	-	0.000364
Rel-Rasco (SMO)	1465.0	75.0	-	0
CLCC	1097.0	443.0	-	0.00607
APSSC	982.0	503.0	-	0.038786
SNNRCE	711.5	828.5	-	1
ADE-CoForest	888.0	652.0	-	0.320779

Table 40: Results obtained by the Wilcoxon test for algorithm TriTraining (SMO)

### 14.2 Confidence intervals for Median of differences

$\alpha=0.90$	Confidence interval	Exact confidence
Self-Training (NN)	[-0.0052 , 0.0151]	2
Self-Training (C45)	[-0.02955 , 0.00585]	2
Self-Training (NB)	[0.0045 , 0.04895]	2
Self-Training (SMO)	[-0.0038 , 0.0042]	2
Co-Training (NN)	[0.0002 , 0.026]	2
Co-Training (C45)	[-0.02565 , 0.00515]	2
Co-Training (NB)	[-0.0068 , 0.036]	2
Co-Training (SMO)	[-0.00945 , -0.0009]	2
Democratic-Co	[-0.03175 , -0.0016]	2
SETRED	[-0.0096 , 0.01135]	2
TriTraining (NN)	[-0.0024 , 0.01465]	2
TriTraining (C45)	[-0.03465 , -0.00055]	2
TriTraining (NB)	[-0.0116 , 0.03235]	2
DE-TriTraining (NN)	[-0.0086 , 0.01555]	2
DE-TriTraining (C45)	[-0.0164 , 0.0121]	2
DE-TriTraining (NB)	[-0.0048 , 0.0372]	2
DE-TriTraining (SMO)	[-0.0122 , 0.00545]	2
CoForest	[-0.0213 , 0.0052]	2
Rasco (NN)	[0.07765 , 0.12905]	2
Rasco (C45)	[0.04075 , 0.09215]	2
Rasco (NB)	[0.028 , 0.07865]	2
Rasco (SMO)	[0.0473 , 0.0985]	2
Co-Bagging (NN)	[-0.01035 , 0.0098]	2
Co-Bagging (C45)	[-0.03315 , -0.0001]	2
Co-Bagging (NB)	[-0.0102 , 0.03175]	2
Co-Bagging (SMO)	[-0.00395 , 0.0003]	2
Rel-Rasco (NN)	[0.0772 , 0.12675]	2
Rel-Rasco (C45)	[0.03755 , 0.0932]	2
Rel-Rasco (NB)	[0.0322 , 0.0817]	2
Rel-Rasco (SMO)	[0.0513 , 0.10605]	2
CLCC	[0.01625 , 0.0793]	2
APSSC	[0.0072 , 0.0492]	2
SNNRCE	[-0.0118 , 0.00605]	2
ADE-CoForest	[-0.00555 , 0.0244]	2

Table 41: Confidence intervals for algorithm TriTraining (SMO) ( $\alpha=0.90$ )

$\alpha=0.95$	Confidence interval	Exact confidence
Self-Training (NN)	[-0.00785 , 0.0176]	2
Self-Training (C45)	[-0.0336 , 0.00845]	2
Self-Training (NB)	[-0.00035 , 0.0542]	2
Self-Training (SMO)	[-0.00535 , 0.00635]	2
Co-Training (NN)	[-0.00295 , 0.0289]	2
Co-Training (C45)	[-0.03205 , 0.00875]	2
Co-Training (NB)	[-0.0126 , 0.04115]	2
Co-Training (SMO)	[-0.0109 , -0.0004]	2
Democratic-Co	[-0.03555 , 0.00075]	2
SETRED	[-0.01155 , 0.0133]	2
TriTraining (NN)	[-0.00465 , 0.01695]	2
TriTraining (C45)	[-0.0382 , 0.00185]	2
TriTraining (NB)	[-0.0158 , 0.03585]	2
DE-TriTraining (NN)	[-0.01065 , 0.0191]	2
DE-TriTraining (C45)	[-0.0198 , 0.01505]	2
DE-TriTraining (NB)	[-0.00855 , 0.0428]	2
DE-TriTraining (SMO)	[-0.01445 , 0.00725]	2
CoForest	[-0.0239 , 0.0074]	2
Rasco (NN)	[0.07495 , 0.1358]	2
Rasco (C45)	[0.037 , 0.0994]	2
Rasco (NB)	[0.0233 , 0.08495]	2
Rasco (SMO)	[0.0445 , 0.10485]	2
Co-Bagging (NN)	[-0.0123 , 0.0117]	2
Co-Bagging (C45)	[-0.03875 , 0.00235]	2
Co-Bagging (NB)	[-0.01445 , 0.03685]	2
Co-Bagging (SMO)	[-0.005 , 0.0007]	2
Rel-Rasco (NN)	[0.07255 , 0.1353]	2
Rel-Rasco (C45)	[0.0344 , 0.09835]	2
Rel-Rasco (NB)	[0.0262 , 0.08605]	2
Rel-Rasco (SMO)	[0.04695 , 0.11305]	2
CLCC	[0.01265 , 0.08665]	2
APSSC	[0.0016 , 0.05225]	2
SNNRCE	[-0.0145 , 0.00785]	2
ADE-CoForest	[-0.00815 , 0.02775]	2

Table 42: Confidence intervals for algorithm TriTraining (SMO) ( $\alpha=0.95$ )

## 15 Detailed results for DE-TriTraining (NN)

### 15.1 Results

VS	$R^+$	$R^-$	Exact P-value	Asymptotic P-value
Self-Training (NN)	707.5	832.5	-	1
Self-Training (C45)	632.0	908.0	-	1
Self-Training (NB)	1033.0	507.0	-	0.027262
Self-Training (SMO)	848.5	691.5	-	0.507587
Co-Training (NN)	904.5	635.5	-	0.256514
Co-Training (C45)	658.0	882.0	-	1
Co-Training (NB)	872.5	667.5	-	0.387148
Co-Training (SMO)	716.0	824.0	-	1
Democratic-Co	445.0	1095.0	-	1
SETRED	652.5	887.5	-	1
TriTraining (NN)	710.5	829.5	-	1
TriTraining (C45)	510.0	1030.0	-	1
TriTraining (NB)	834.0	706.0	-	0.588519
TriTraining (SMO)	699.0	786.0	-	1
DE-TriTraining (C45)	724.5	760.5	-	1
DE-TriTraining (NB)	982.5	557.5	-	0.074018
DE-TriTraining (SMO)	543.5	996.5	-	1
CoForest	592.0	948.0	-	1
Rasco (NN)	1512.0	28.0	-	0
Rasco (C45)	1227.0	313.0	-	0.000126
Rasco (NB)	1164.5	320.5	-	0.000271
Rasco (SMO)	1272.0	268.0	-	0.000026
Co-Bagging (NN)	565.5	974.5	-	1
Co-Bagging (C45)	537.0	1003.0	-	1
Co-Bagging (NB)	913.0	627.0	-	0.227775
Co-Bagging (SMO)	638.0	847.0	-	1
Rel-Rasco (NN)	1506.0	34.0	-	0
Rel-Rasco (C45)	1229.0	311.0	-	0.000118
Rel-Rasco (NB)	1193.5	346.5	-	0.000376
Rel-Rasco (SMO)	1287.0	253.0	-	0.000015
CLCC	1196.0	344.0	-	0.000352
APSSC	995.5	544.5	-	0.057758
SNNRCE	529.0	1011.0	-	1
ADE-CoForest	744.0	741.0	-	0.986201

Table 43: Results obtained by the Wilcoxon test for algorithm DE-TriTraining (NN)

### 15.2 Confidence intervals for Median of differences

$\alpha=0.90$	Confidence interval	Exact confidence
Self-Training (NN)	[-0.0122 , 0.006]	2
Self-Training (C45)	[-0.02165 , 0.0032]	2
Self-Training (NB)	[0.0061 , 0.0427]	2
Self-Training (SMO)	[-0.008 , 0.01875]	2
Co-Training (NN)	[-0.0033 , 0.0156]	2
Co-Training (C45)	[-0.0211 , 0.006]	2
Co-Training (NB)	[-0.00655 , 0.0271]	2
Co-Training (SMO)	[-0.0175 , 0.00895]	2
Democratic-Co	[-0.0265 , -0.00565]	2
SETRED	[-0.0142 , 0.0028]	2
TriTraining (NN)	[-0.0105 , 0.0062]	2
TriTraining (C45)	[-0.0292 , -0.00305]	2
TriTraining (NB)	[-0.0115 , 0.0266]	2
TriTraining (SMO)	[-0.01555 , 0.0086]	2
DE-TriTraining (C45)	[-0.0083 , 0.0055]	2
DE-TriTraining (NB)	[0.0009 , 0.0283]	2
DE-TriTraining (SMO)	[-0.00795 , -0.00035]	2
CoForest	[-0.0285 , 0.00125]	2
Rasco (NN)	[0.0746 , 0.12825]	2
Rasco (C45)	[0.039 , 0.09745]	2
Rasco (NB)	[0.03185 , 0.0841]	2
Rasco (SMO)	[0.04645 , 0.1182]	2
Co-Bagging (NN)	[-0.0106 , -0.00025]	2
Co-Bagging (C45)	[-0.0291 , -0.00255]	2
Co-Bagging (NB)	[-0.0036 , 0.0296]	2
Co-Bagging (SMO)	[-0.01685 , 0.00555]	2
Rel-Rasco (NN)	[0.07365 , 0.1264]	2
Rel-Rasco (C45)	[0.03735 , 0.09365]	2
Rel-Rasco (NB)	[0.03065 , 0.0812]	2
Rel-Rasco (SMO)	[0.04975 , 0.12395]	2
CLCC	[0.02065 , 0.06755]	2
APSSC	[0.00275 , 0.03805]	2
SNNRCE	[-0.0192 , -0.0014]	2
ADE-CoForest	[-0.0039 , 0.00585]	2

Table 44: Confidence intervals for algorithm DE-TriTraining (NN) ( $\alpha=0.90$ )

$\alpha=0.95$	Confidence interval	Exact confidence
Self-Training (NN)	[-0.01485 , 0.0083]	2
Self-Training (C45)	[-0.0249 , 0.00485]	2
Self-Training (NB)	[0.00295 , 0.0469]	2
Self-Training (SMO)	[-0.0104 , 0.0226]	2
Co-Training (NN)	[-0.00535 , 0.01815]	2
Co-Training (C45)	[-0.0239 , 0.0081]	2
Co-Training (NB)	[-0.00925 , 0.0306]	2
Co-Training (SMO)	[-0.021 , 0.0115]	2
Democratic-Co	[-0.0301 , -0.0045]	2
SETRED	[-0.0163 , 0.0043]	2
TriTraining (NN)	[-0.0124 , 0.0077]	2
TriTraining (C45)	[-0.03225 , -0.0014]	2
TriTraining (NB)	[-0.01425 , 0.03075]	2
TriTraining (SMO)	[-0.0191 , 0.01065]	2
DE-TriTraining (C45)	[-0.0098 , 0.00725]	2
DE-TriTraining (NB)	[-0.0014 , 0.03125]	2
DE-TriTraining (SMO)	[-0.00925 , 0.00005]	2
CoForest	[-0.03245 , 0.00415]	2
Rasco (NN)	[0.07015 , 0.13605]	2
Rasco (C45)	[0.03365 , 0.1038]	2
Rasco (NB)	[0.02735 , 0.0879]	2
Rasco (SMO)	[0.04135 , 0.1258]	2
Co-Bagging (NN)	[-0.01165 , 0.0004]	2
Co-Bagging (C45)	[-0.03195 , 0.0002]	2
Co-Bagging (NB)	[-0.00755 , 0.03225]	2
Co-Bagging (SMO)	[-0.02075 , 0.0079]	2
Rel-Rasco (NN)	[0.0684 , 0.1322]	2
Rel-Rasco (C45)	[0.03285 , 0.10015]	2
Rel-Rasco (NB)	[0.0256 , 0.08625]	2
Rel-Rasco (SMO)	[0.04315 , 0.13145]	2
CLCC	[0.01705 , 0.0732]	2
APSSC	[-0.00045 , 0.0414]	2
SNNRCE	[-0.02145 , -0.0004]	2
ADE-CoForest	[-0.0047 , 0.0076]	2

Table 45: Confidence intervals for algorithm DE-TriTraining (NN) ( $\alpha=0.95$ )

## 16 Detailed results for DE-TriTraining (C45)

### 16.1 Results

VS	$R^+$	$R^-$	Exact P-value	Asymptotic P-value
Self-Training (NN)	856.5	683.5	-	0.465575
Self-Training (C45)	503.5	1036.5	-	1
Self-Training (NB)	1104.0	436.0	-	0.005069
Self-Training (SMO)	794.0	746.0	-	0.837358
Co-Training (NN)	984.0	556.0	-	0.072006
Co-Training (C45)	566.0	974.0	-	1
Co-Training (NB)	957.5	582.5	-	0.114837
Co-Training (SMO)	706.0	834.0	-	1
Democratic-Co	320.5	1164.5	-	1
SETRED	809.0	731.0	-	0.74068
TriTraining (NN)	836.5	703.5	-	0.573747
TriTraining (C45)	320.0	1220.0	-	1
TriTraining (NB)	873.0	612.0	-	0.259346
TriTraining (SMO)	765.5	719.5	-	0.83931
DE-TriTraining (NN)	760.5	724.5	-	0.873306
DE-TriTraining (NB)	1087.5	452.5	-	0.007649
DE-TriTraining (SMO)	791.0	749.0	-	0.856598
CoForest	520.0	1020.0	-	1
Rasco (NN)	1511.0	29.0	-	0
Rasco (C45)	1375.0	165.0	-	0
Rasco (NB)	1296.5	243.5	-	0.00001
Rasco (SMO)	1356.0	184.0	-	0.000001
Co-Bagging (NN)	726.5	813.5	-	1
Co-Bagging (C45)	329.0	1211.0	-	1
Co-Bagging (NB)	972.0	568.0	-	0.089426
Co-Bagging (SMO)	743.0	742.0	-	0.99313
Rel-Rasco (NN)	1509.0	31.0	-	0
Rel-Rasco (C45)	1376.0	164.0	-	0
Rel-Rasco (NB)	1294.0	246.0	-	0.000011
Rel-Rasco (SMO)	1365.0	175.0	-	0.000001
CLCC	1263.0	277.0	-	0.000035
APSSC	1045.0	495.0	-	0.020983
SNNRCE	752.0	788.0	-	1
ADE-CoForest	790.0	695.0	-	0.679394

Table 46: Results obtained by the Wilcoxon test for algorithm DE-TriTraining (C45)

### 16.2 Confidence intervals for Median of differences

$\alpha=0.90$	Confidence interval	Exact confidence
Self-Training (NN)	[-0.00945 , 0.0189]	2
Self-Training (C45)	[-0.0155 , -0.00225]	2
Self-Training (NB)	[0.0151 , 0.0478]	2
Self-Training (SMO)	[-0.0114 , 0.0165]	2
Co-Training (NN)	[0.0022 , 0.02635]	2
Co-Training (C45)	[-0.0143 , -0.0004]	2
Co-Training (NB)	[-0.0005 , 0.03015]	2
Co-Training (SMO)	[-0.01645 , 0.00865]	2
Democratic-Co	[-0.02215 , -0.0077]	2
SETRED	[-0.0112 , 0.01495]	2
TriTraining (NN)	[-0.0086 , 0.0167]	2
TriTraining (C45)	[-0.0242 , -0.00935]	2
TriTraining (NB)	[-0.00555 , 0.0277]	2
TriTraining (SMO)	[-0.0121 , 0.0164]	2
DE-TriTraining (NN)	[-0.0055 , 0.0083]	2
DE-TriTraining (NB)	[0.00725 , 0.0312]	2
DE-TriTraining (SMO)	[-0.0054 , 0.0073]	2
CoForest	[-0.0324 , -0.00555]	2
Rasco (NN)	[0.08435 , 0.1287]	2
Rasco (C45)	[0.0403 , 0.0902]	2
Rasco (NB)	[0.03965 , 0.08175]	2
Rasco (SMO)	[0.05215 , 0.1106]	2
Co-Bagging (NN)	[-0.0106 , 0.0064]	2
Co-Bagging (C45)	[-0.02345 , -0.0087]	2
Co-Bagging (NB)	[0.0003 , 0.0286]	2
Co-Bagging (SMO)	[-0.0143 , 0.0145]	2
Rel-Rasco (NN)	[0.08275 , 0.12795]	2
Rel-Rasco (C45)	[0.0379 , 0.08835]	2
Rel-Rasco (NB)	[0.03715 , 0.08245]	2
Rel-Rasco (SMO)	[0.0548 , 0.11725]	2
CLCC	[0.0246 , 0.06555]	2
APSSC	[0.0082 , 0.0469]	2
SNNRCE	[-0.01455 , 0.00925]	2
ADE-CoForest	[-0.0041 , 0.00745]	2

Table 47: Confidence intervals for algorithm DE-TriTraining (C45) ( $\alpha=0.90$ )



$\alpha=0.95$	Confidence interval	Exact confidence
Self-Training (NN)	[-0.0127 , 0.0213]	2
Self-Training (C45)	[-0.0168 , -0.0011]	2
Self-Training (NB)	[0.0119 , 0.0507]	2
Self-Training (SMO)	[-0.0145 , 0.0205]	2
Co-Training (NN)	[-0.00125 , 0.0288]	2
Co-Training (C45)	[-0.0161 , 0.0009]	2
Co-Training (NB)	[-0.00395 , 0.03325]	2
Co-Training (SMO)	[-0.0191 , 0.0113]	2
Democratic-Co	[-0.0243 , -0.0066]	2
SETRED	[-0.01575 , 0.01775]	2
TriTraining (NN)	[-0.0116 , 0.01945]	2
TriTraining (C45)	[-0.02615 , -0.00775]	2
TriTraining (NB)	[-0.0086 , 0.0321]	2
TriTraining (SMO)	[-0.01505 , 0.0198]	2
DE-TriTraining (NN)	[-0.00725 , 0.0098]	2
DE-TriTraining (NB)	[0.00495 , 0.034]	2
DE-TriTraining (SMO)	[-0.0067 , 0.0096]	2
CoForest	[-0.0352 , -0.0015]	2
Rasco (NN)	[0.08115 , 0.13585]	2
Rasco (C45)	[0.0363 , 0.0962]	2
Rasco (NB)	[0.03545 , 0.08635]	2
Rasco (SMO)	[0.04785 , 0.1198]	2
Co-Bagging (NN)	[-0.0123 , 0.00815]	2
Co-Bagging (C45)	[-0.025 , -0.00755]	2
Co-Bagging (NB)	[-0.00225 , 0.03155]	2
Co-Bagging (SMO)	[-0.0169 , 0.0174]	2
Rel-Rasco (NN)	[0.07905 , 0.13335]	2
Rel-Rasco (C45)	[0.03315 , 0.0936]	2
Rel-Rasco (NB)	[0.03355 , 0.0863]	2
Rel-Rasco (SMO)	[0.04995 , 0.1262]	2
CLCC	[0.02145 , 0.0729]	2
APSSC	[0.0049 , 0.0507]	2
SNNRCE	[-0.0173 , 0.01105]	2
ADE-CoForest	[-0.00535 , 0.0096]	2

Table 48: Confidence intervals for algorithm DE-TriTraining (C45) ( $\alpha=0.95$ )

## 17 Detailed results for DE-TriTraining (NB)

### 17.1 Results

VS	$R^+$	$R^-$	Exact P-value	Asymptotic P-value
Self-Training (NN)	608.0	932.0	-	1
Self-Training (C45)	345.5	1194.5	-	1
Self-Training (NB)	1059.0	481.0	-	0.015284
Self-Training (SMO)	579.0	961.0	-	1
Co-Training (NN)	702.0	838.0	-	1
Co-Training (C45)	382.0	1158.0	-	1
Co-Training (NB)	702.0	838.0	-	1
Co-Training (SMO)	508.0	1032.0	-	1
Democratic-Co	141.0	1399.0	-	1
SETRED	565.0	975.0	-	1
TriTraining (NN)	601.0	939.0	-	1
TriTraining (C45)	270.0	1270.0	-	1
TriTraining (NB)	514.0	1026.0	-	1
TriTraining (SMO)	596.0	889.0	-	1
DE-TriTraining (NN)	557.5	982.5	-	1
DE-TriTraining (C45)	452.5	1087.5	-	1
DE-TriTraining (SMO)	561.5	978.5	-	1
CoForest	449.0	1091.0	-	1
Rasco (NN)	1420.0	120.0	-	0
Rasco (C45)	1176.5	363.5	-	0.000641
Rasco (NB)	1297.0	188.0	-	0.000002
Rasco (SMO)	1203.0	337.0	-	0.000281
Co-Bagging (NN)	488.5	1051.5	-	1
Co-Bagging (C45)	283.0	1257.0	-	1
Co-Bagging (NB)	651.0	889.0	-	1
Co-Bagging (SMO)	587.0	953.0	-	1
Rel-Rasco (NN)	1408.0	132.0	-	0
Rel-Rasco (C45)	1167.0	373.0	-	0.000867
Rel-Rasco (NB)	1348.0	192.0	-	0.000001
Rel-Rasco (SMO)	1209.0	331.0	-	0.000231
CLCC	1135.0	405.0	-	0.002126
APSSC	765.0	775.0	-	1
SNNRCE	509.0	1031.0	-	1
ADE-CoForest	530.0	955.0	-	1

Table 49: Results obtained by the Wilcoxon test for algorithm DE-TriTraining (NB)

### 17.2 Confidence intervals for Median of differences

$\alpha=0.90$	Confidence interval	Exact confidence
Self-Training (NN)	[-0.04305 , 0.00425]	2
Self-Training (C45)	[-0.0472 , -0.01965]	2
Self-Training (NB)	[0.00385 , 0.0188]	2
Self-Training (SMO)	[-0.0431 , 0.0003]	2
Co-Training (NN)	[-0.02805 , 0.01195]	2
Co-Training (C45)	[-0.04535 , -0.01595]	2
Co-Training (NB)	[-0.0092 , 0.0034]	2
Co-Training (SMO)	[-0.0442 , -0.00595]	2
Democratic-Co	[-0.04735 , -0.0259]	2
SETRED	[-0.0466 , -0.00095]	2
TriTraining (NN)	[-0.0422 , 0.0033]	2
TriTraining (C45)	[-0.05415 , -0.02485]	2
TriTraining (NB)	[-0.0138 , -0.00085]	2
TriTraining (SMO)	[-0.0372 , 0.0048]	2
DE-TriTraining (NN)	[-0.0283 , -0.0009]	2
DE-TriTraining (C45)	[-0.0312 , -0.00725]	2
DE-TriTraining (SMO)	[-0.031 , -0.0006]	2
CoForest	[-0.0584 , -0.01635]	2
Rasco (NN)	[0.06615 , 0.1115]	2
Rasco (C45)	[0.0233 , 0.07135]	2
Rasco (NB)	[0.01745 , 0.0436]	2
Rasco (SMO)	[0.03235 , 0.094]	2
Co-Bagging (NN)	[-0.03955 , -0.00635]	2
Co-Bagging (C45)	[-0.05345 , -0.0252]	2
Co-Bagging (NB)	[-0.00945 , 0.00185]	2
Co-Bagging (SMO)	[-0.03935 , 0.00085]	2
Rel-Rasco (NN)	[0.065 , 0.10985]	2
Rel-Rasco (C45)	[0.0199 , 0.0677]	2
Rel-Rasco (NB)	[0.0172 , 0.0466]	2
Rel-Rasco (SMO)	[0.03485 , 0.09605]	2
CLCC	[0.00985 , 0.03005]	2
APSSC	[-0.02085 , 0.02375]	2
SNNRCE	[-0.04835 , -0.007]	2
ADE-CoForest	[-0.0271 , -0.001]	2

Table 50: Confidence intervals for algorithm DE-TriTraining (NB) ( $\alpha=0.90$ )

$\alpha=0.95$	Confidence interval	Exact confidence
Self-Training (NN)	[-0.04795 , 0.0074]	2
Self-Training (C45)	[-0.05015 , -0.01615]	2
Self-Training (NB)	[0.00235 , 0.0202]	2
Self-Training (SMO)	[-0.04665 , 0.00595]	2
Co-Training (NN)	[-0.03285 , 0.0154]	2
Co-Training (C45)	[-0.04825 , -0.0133]	2
Co-Training (NB)	[-0.0111 , 0.0046]	2
Co-Training (SMO)	[-0.0489 , -0.0026]	2
Democratic-Co	[-0.05015 , -0.0239]	2
SETRED	[-0.05105 , 0.0028]	2
TriTraining (NN)	[-0.0473 , 0.00665]	2
TriTraining (C45)	[-0.0572 , -0.022]	2
TriTraining (NB)	[-0.0164 , -0.00035]	2
TriTraining (SMO)	[-0.0428 , 0.00855]	2
DE-TriTraining (NN)	[-0.03125 , 0.0014]	2
DE-TriTraining (C45)	[-0.034 , -0.00495]	2
DE-TriTraining (SMO)	[-0.0342 , 0.0018]	2
CoForest	[-0.0629 , -0.0106]	2
Rasco (NN)	[0.0611 , 0.1175]	2
Rasco (C45)	[0.0187 , 0.0782]	2
Rasco (NB)	[0.0156 , 0.0501]	2
Rasco (SMO)	[0.02695 , 0.1007]	2
Co-Bagging (NN)	[-0.04375 , -0.0037]	2
Co-Bagging (C45)	[-0.0562 , -0.02195]	2
Co-Bagging (NB)	[-0.011 , 0.0028]	2
Co-Bagging (SMO)	[-0.04375 , 0.0063]	2
Rel-Rasco (NN)	[0.0608 , 0.11505]	2
Rel-Rasco (C45)	[0.01695 , 0.074]	2
Rel-Rasco (NB)	[0.01595 , 0.051]	2
Rel-Rasco (SMO)	[0.0308 , 0.10425]	2
CLCC	[0.00745 , 0.03325]	2
APSSC	[-0.0249 , 0.0302]	2
SNNRCE	[-0.0519 , -0.0028]	2
ADE-CoForest	[-0.02955 , 0.001]	2

Table 51: Confidence intervals for algorithm DE-TriTraining (NB) ( $\alpha=0.95$ )

## 18 Detailed results for DE-TriTraining (SMO)

### 18.1 Results

VS	$R^+$	$R^-$	Exact P-value	Asymptotic P-value
Self-Training (NN)	909.0	631.0	-	0.240505
Self-Training (C45)	591.0	949.0	-	1
Self-Training (NB)	1035.0	505.0	-	0.026115
Self-Training (SMO)	848.0	637.0	-	0.360892
Co-Training (NN)	1040.0	500.0	-	0.023427
Co-Training (C45)	605.0	935.0	-	1
Co-Training (NB)	884.0	656.0	-	0.337386
Co-Training (SMO)	749.0	791.0	-	1
Democratic-Co	449.0	1091.0	-	1
SETRED	836.0	704.0	-	0.57701
TriTraining (NN)	889.0	596.0	-	0.205132
TriTraining (C45)	508.0	1032.0	-	1
TriTraining (NB)	842.0	698.0	-	0.543133
TriTraining (SMO)	841.0	699.0	-	0.549129
DE-TriTraining (NN)	996.5	543.5	-	0.05692
DE-TriTraining (C45)	749.0	791.0	-	1
DE-TriTraining (NB)	978.5	561.5	-	0.07961
CoForest	615.0	925.0	-	1
Rasco (NN)	1537.0	3.0	-	0
Rasco (C45)	1301.0	239.0	-	0.000008
Rasco (NB)	1233.5	306.5	-	0.0001
Rasco (SMO)	1413.0	127.0	-	0
Co-Bagging (NN)	862.0	678.0	-	0.436406
Co-Bagging (C45)	515.0	1025.0	-	1
Co-Bagging (NB)	914.0	626.0	-	0.22601
Co-Bagging (SMO)	720.5	764.5	-	1
Rel-Rasco (NN)	1535.0	5.0	-	0
Rel-Rasco (C45)	1305.0	235.0	-	0.000007
Rel-Rasco (NB)	1224.0	316.0	-	0.000138
Rel-Rasco (SMO)	1364.5	120.5	-	0
CLCC	1223.5	316.5	-	0.00014
APSSC	1083.5	456.5	-	0.008379
SNNRCE	721.0	764.0	-	1
ADE-CoForest	888.5	596.5	-	0.206677

Table 52: Results obtained by the Wilcoxon test for algorithm DE-TriTraining (SMO)

### 18.2 Confidence intervals for Median of differences

$\alpha=0.90$	Confidence interval	Exact confidence
Self-Training (NN)	[-0.0024 , 0.0153]	2
Self-Training (C45)	[-0.0233 , 0.00145]	2
Self-Training (NB)	[0.00735 , 0.0482]	2
Self-Training (SMO)	[-0.00495 , 0.01765]	2
Co-Training (NN)	[0.0042 , 0.0258]	2
Co-Training (C45)	[-0.02295 , 0.00235]	2
Co-Training (NB)	[-0.007 , 0.0303]	2
Co-Training (SMO)	[-0.01015 , 0.008]	2
Democratic-Co	[-0.02675 , -0.00555]	2
SETRED	[-0.00495 , 0.01105]	2
TriTraining (NN)	[-0.00155 , 0.01355]	2
TriTraining (C45)	[-0.03 , -0.0042]	2
TriTraining (NB)	[-0.0118 , 0.03]	2
TriTraining (SMO)	[-0.00545 , 0.0122]	2
DE-TriTraining (NN)	[0.00035 , 0.00795]	2
DE-TriTraining (C45)	[-0.0073 , 0.0054]	2
DE-TriTraining (NB)	[0.0006 , 0.031]	2
CoForest	[-0.0268 , 0.00425]	2
Rasco (NN)	[0.0811 , 0.12775]	2
Rasco (C45)	[0.04545 , 0.09925]	2
Rasco (NB)	[0.03355 , 0.084]	2
Rasco (SMO)	[0.05205 , 0.1156]	2
Co-Bagging (NN)	[-0.00295 , 0.0066]	2
Co-Bagging (C45)	[-0.0292 , -0.0039]	2
Co-Bagging (NB)	[-0.00495 , 0.03055]	2
Co-Bagging (SMO)	[-0.00845 , 0.0078]	2
Rel-Rasco (NN)	[0.07885 , 0.1264]	2
Rel-Rasco (C45)	[0.0423 , 0.0978]	2
Rel-Rasco (NB)	[0.03295 , 0.0827]	2
Rel-Rasco (SMO)	[0.05835 , 0.12025]	2
CLCC	[0.022 , 0.07235]	2
APSSC	[0.01055 , 0.0517]	2
SNNRCE	[-0.0082 , 0.0058]	2
ADE-CoForest	[-0.0012 , 0.01015]	2

Table 53: Confidence intervals for algorithm DE-TriTraining (SMO) ( $\alpha=0.90$ )

$\alpha=0.95$	Confidence interval	Exact confidence
Self-Training (NN)	[-0.0035 , 0.0169]	2
Self-Training (C45)	[-0.0265 , 0.00395]	2
Self-Training (NB)	[0.0026 , 0.0526]	2
Self-Training (SMO)	[-0.00715 , 0.02075]	2
Co-Training (NN)	[0.00145 , 0.02765]	2
Co-Training (C45)	[-0.02515 , 0.00485]	2
Co-Training (NB)	[-0.01085 , 0.0341]	2
Co-Training (SMO)	[-0.01275 , 0.00975]	2
Democratic-Co	[-0.0291 , -0.00405]	2
SETRED	[-0.00665 , 0.01265]	2
TriTraining (NN)	[-0.00265 , 0.0153]	2
TriTraining (C45)	[-0.03285 , -0.0013]	2
TriTraining (NB)	[-0.0158 , 0.03515]	2
TriTraining (SMO)	[-0.00725 , 0.01445]	2
DE-TriTraining (NN)	[-0.00005 , 0.00925]	2
DE-TriTraining (C45)	[-0.0096 , 0.0067]	2
DE-TriTraining (NB)	[-0.0018 , 0.0342]	2
CoForest	[-0.0298 , 0.0074]	2
Rasco (NN)	[0.07735 , 0.13405]	2
Rasco (C45)	[0.04135 , 0.1035]	2
Rasco (NB)	[0.029 , 0.09]	2
Rasco (SMO)	[0.04815 , 0.12235]	2
Co-Bagging (NN)	[-0.00375 , 0.00735]	2
Co-Bagging (C45)	[-0.0315 , -0.0015]	2
Co-Bagging (NB)	[-0.00785 , 0.0344]	2
Co-Bagging (SMO)	[-0.01005 , 0.0094]	2
Rel-Rasco (NN)	[0.07535 , 0.13205]	2
Rel-Rasco (C45)	[0.0371 , 0.10125]	2
Rel-Rasco (NB)	[0.02865 , 0.08815]	2
Rel-Rasco (SMO)	[0.0516 , 0.1249]	2
CLCC	[0.01805 , 0.0809]	2
APSSC	[0.00685 , 0.0547]	2
SNNRCE	[-0.00955 , 0.00685]	2
ADE-CoForest	[-0.00255 , 0.01165]	2

Table 54: Confidence intervals for algorithm DE-TriTraining (SMO) ( $\alpha=0.95$ )

## 19 Detailed results for CoForest

### 19.1 Results

VS	$R^+$	$R^-$	Exact P-value	Asymptotic P-value
Self-Training (NN)	936.0	604.0	-	0.163007
Self-Training (C45)	966.0	574.0	-	0.09933
Self-Training (NB)	1104.0	436.0	-	0.005069
Self-Training (SMO)	903.0	637.0	-	0.263338
Co-Training (NN)	1084.0	456.0	-	0.008412
Co-Training (C45)	980.5	559.5	-	0.076464
Co-Training (NB)	1030.0	510.0	-	0.029064
Co-Training (SMO)	844.0	696.0	-	0.532495
Democratic-Co	798.0	742.0	-	0.811269
SETRED	894.5	645.5	-	0.29394
TriTraining (NN)	913.0	627.0	-	0.229239
TriTraining (C45)	889.5	650.5	-	0.313677
TriTraining (NB)	1030.0	510.0	-	0.028896
TriTraining (SMO)	865.0	620.0	-	0.289055
DE-TriTraining (NN)	948.0	592.0	-	0.134357
DE-TriTraining (C45)	1020.0	520.0	-	0.035832
DE-TriTraining (NB)	1091.0	449.0	-	0.007066
DE-TriTraining (SMO)	925.0	615.0	-	0.192621
Rasco (NN)	1399.0	141.0	-	0
Rasco (C45)	1241.0	299.0	-	0.000078
Rasco (NB)	1198.0	342.0	-	0.00033
Rasco (SMO)	1268.0	272.0	-	0.00003
Co-Bagging (NN)	901.0	639.0	-	0.270558
Co-Bagging (C45)	908.0	632.0	-	0.243893
Co-Bagging (NB)	1053.5	486.5	-	0.017219
Co-Bagging (SMO)	867.5	672.5	-	0.41061
Rel-Rasco (NN)	1386.5	153.5	-	0
Rel-Rasco (C45)	1242.0	298.0	-	0.000074
Rel-Rasco (NB)	1201.0	339.0	-	0.0003
Rel-Rasco (SMO)	1285.0	255.0	-	0.000016
CLCC	1274.0	266.0	-	0.000023
APSSC	1017.5	522.5	-	0.03752
SNNRCE	826.0	659.0	-	0.468563
ADE-CoForest	1034.0	451.0	-	0.011839

Table 55: Results obtained by the Wilcoxon test for algorithm CoForest

### 19.2 Confidence intervals for Median of differences



$\alpha=0.90$	Confidence interval	Exact confidence
Self-Training (NN)	[-0.0022 , 0.02515]	2
Self-Training (C45)	[0.00015 , 0.02255]	2
Self-Training (NB)	[0.0204 , 0.0663]	2
Self-Training (SMO)	[-0.0046 , 0.0263]	2
Co-Training (NN)	[0.01095 , 0.0355]	2
Co-Training (C45)	[0.00105 , 0.024]	2
Co-Training (NB)	[0.0093 , 0.05215]	2
Co-Training (SMO)	[-0.0083 , 0.02045]	2
Democratic-Co	[-0.01275 , 0.01505]	2
SETRED	[-0.005 , 0.02105]	2
TriTraining (NN)	[-0.0032 , 0.02305]	2
TriTraining (C45)	[-0.00425 , 0.015]	2
TriTraining (NB)	[0.00845 , 0.0504]	2
TriTraining (SMO)	[-0.0052 , 0.0213]	2
DE-TriTraining (NN)	[-0.00125 , 0.0285]	2
DE-TriTraining (C45)	[0.00555 , 0.0324]	2
DE-TriTraining (NB)	[0.01635 , 0.0584]	2
DE-TriTraining (SMO)	[-0.00425 , 0.0268]	2
Rasco (NN)	[0.08905 , 0.15235]	2
Rasco (C45)	[0.04965 , 0.10835]	2
Rasco (NB)	[0.03935 , 0.1049]	2
Rasco (SMO)	[0.05715 , 0.13305]	2
Co-Bagging (NN)	[-0.00335 , 0.0185]	2
Co-Bagging (C45)	[-0.0037 , 0.0147]	2
Co-Bagging (NB)	[0.0108 , 0.05185]	2
Co-Bagging (SMO)	[-0.00765 , 0.01985]	2
Rel-Rasco (NN)	[0.08945 , 0.15255]	2
Rel-Rasco (C45)	[0.04745 , 0.10495]	2
Rel-Rasco (NB)	[0.0412 , 0.10225]	2
Rel-Rasco (SMO)	[0.0581 , 0.13915]	2
CLCC	[0.0283 , 0.0774]	2
APSSC	[0.0059 , 0.05125]	2
SNNRCE	[-0.0055 , 0.01725]	2
ADE-CoForest	[0.00585 , 0.02875]	2

Table 56: Confidence intervals for algorithm CoForest ( $\alpha=0.90$ )

$\alpha=0.95$	Confidence interval	Exact confidence
Self-Training (NN)	[-0.0051 , 0.0274]	2
Self-Training (C45)	[-0.0028 , 0.02485]	2
Self-Training (NB)	[0.01545 , 0.072]	2
Self-Training (SMO)	[-0.0075 , 0.0289]	2
Co-Training (NN)	[0.008 , 0.0386]	2
Co-Training (C45)	[-0.00135 , 0.0264]	2
Co-Training (NB)	[0.00365 , 0.05645]	2
Co-Training (SMO)	[-0.011 , 0.0226]	2
Democratic-Co	[-0.0155 , 0.01785]	2
SETRED	[-0.00875 , 0.0244]	2
TriTraining (NN)	[-0.00655 , 0.02605]	2
TriTraining (C45)	[-0.00605 , 0.01625]	2
TriTraining (NB)	[0.0043 , 0.0549]	2
TriTraining (SMO)	[-0.0074 , 0.0239]	2
DE-TriTraining (NN)	[-0.00415 , 0.03245]	2
DE-TriTraining (C45)	[0.0015 , 0.0352]	2
DE-TriTraining (NB)	[0.0106 , 0.0629]	2
DE-TriTraining (SMO)	[-0.0074 , 0.0298]	2
Rasco (NN)	[0.08415 , 0.1594]	2
Rasco (C45)	[0.0429 , 0.11585]	2
Rasco (NB)	[0.03515 , 0.10915]	2
Rasco (SMO)	[0.05225 , 0.142]	2
Co-Bagging (NN)	[-0.0061 , 0.0215]	2
Co-Bagging (C45)	[-0.00555 , 0.01725]	2
Co-Bagging (NB)	[0.0063 , 0.055]	2
Co-Bagging (SMO)	[-0.01025 , 0.02265]	2
Rel-Rasco (NN)	[0.0838 , 0.1605]	2
Rel-Rasco (C45)	[0.04235 , 0.11315]	2
Rel-Rasco (NB)	[0.0356 , 0.10775]	2
Rel-Rasco (SMO)	[0.0538 , 0.1474]	2
CLCC	[0.0246 , 0.085]	2
APSSC	[0.0012 , 0.05585]	2
SNNRCE	[-0.0084 , 0.01895]	2
ADE-CoForest	[0.00325 , 0.0305]	2

Table 57: Confidence intervals for algorithm CoForest ( $\alpha=0.95$ )

## 20 Detailed results for Rasco (NN)

### 20.1 Results

VS	$R^+$	$R^-$	Exact P-value	Asymptotic P-value
Self-Training (NN)	0.0	1540.0	-	1
Self-Training (C45)	30.0	1510.0	-	1
Self-Training (NB)	257.0	1283.0	-	1
Self-Training (SMO)	63.0	1477.0	-	1
Co-Training (NN)	91.0	1449.0	-	1
Co-Training (C45)	26.0	1514.0	-	1
Co-Training (NB)	154.0	1386.0	-	1
Co-Training (SMO)	27.0	1513.0	-	1
Democratic-Co	0.0	1540.0	-	1
SETRED	0.0	1540.0	-	1
TriTraining (NN)	9.0	1531.0	-	1
TriTraining (C45)	15.0	1525.0	-	1
TriTraining (NB)	127.0	1413.0	-	1
TriTraining (SMO)	44.0	1496.0	-	1
DE-TriTraining (NN)	28.0	1512.0	-	1
DE-TriTraining (C45)	29.0	1511.0	-	1
DE-TriTraining (NB)	120.0	1420.0	-	1
DE-TriTraining (SMO)	3.0	1537.0	-	1
CoForest	141.0	1399.0	-	1
Rasco (C45)	243.0	1242.0	-	1
Rasco (NB)	325.0	1215.0	-	1
Rasco (SMO)	301.0	1239.0	-	1
Co-Bagging (NN)	3.0	1537.0	-	1
Co-Bagging (C45)	8.0	1532.0	-	1
Co-Bagging (NB)	125.5	1414.5	-	1
Co-Bagging (SMO)	5.0	1535.0	-	1
Rel-Rasco (NN)	608.5	931.5	-	1
Rel-Rasco (C45)	224.0	1316.0	-	1
Rel-Rasco (NB)	344.0	1196.0	-	1
Rel-Rasco (SMO)	363.0	1177.0	-	1
CLCC	382.0	1158.0	-	1
APSSC	283.0	1257.0	-	1
SNNRCE	5.0	1535.0	-	1
ADE-CoForest	141.0	1399.0	-	1

Table 58: Results obtained by the Wilcoxon test for algorithm Rasco (NN)

### 20.2 Confidence intervals for Median of differences

$\alpha=0.90$	Confidence interval	Exact confidence
Self-Training (NN)	[-0.1427 , -0.06815]	2
Self-Training (C45)	[-0.1502 , -0.0994]	2
Self-Training (NB)	[-0.10615 , -0.0455]	2
Self-Training (SMO)	[-0.1329 , -0.0787]	2
Co-Training (NN)	[-0.1253 , -0.06]	2
Co-Training (C45)	[-0.14735 , -0.09685]	2
Co-Training (NB)	[-0.1271 , -0.0631]	2
Co-Training (SMO)	[-0.14605 , -0.08735]	2
Democratic-Co	[-0.15255 , -0.0973]	2
SETRED	[-0.14175 , -0.07185]	2
TriTraining (NN)	[-0.1387 , -0.067]	2
TriTraining (C45)	[-0.1596 , -0.10435]	2
TriTraining (NB)	[-0.1288 , -0.0685]	2
TriTraining (SMO)	[-0.12905 , -0.07765]	2
DE-TriTraining (NN)	[-0.12825 , -0.0746]	2
DE-TriTraining (C45)	[-0.1287 , -0.08435]	2
DE-TriTraining (NB)	[-0.1115 , -0.06615]	2
DE-TriTraining (SMO)	[-0.12775 , -0.0811]	2
CoForest	[-0.15235 , -0.08905]	2
Rasco (C45)	[-0.051 , -0.02505]	2
Rasco (NB)	[-0.0752 , -0.03245]	2
Rasco (SMO)	[-0.03915 , -0.01745]	2
Co-Bagging (NN)	[-0.13505 , -0.07925]	2
Co-Bagging (C45)	[-0.15575 , -0.10575]	2
Co-Bagging (NB)	[-0.1278 , -0.06805]	2
Co-Bagging (SMO)	[-0.13065 , -0.08095]	2
Rel-Rasco (NN)	[-0.00425 , 0.00035]	2
Rel-Rasco (C45)	[-0.0547 , -0.0274]	2
Rel-Rasco (NB)	[-0.0744 , -0.0282]	2
Rel-Rasco (SMO)	[-0.03735 , -0.01515]	2
CLCC	[-0.07605 , -0.02795]	2
APSSC	[-0.1127 , -0.05135]	2
SNNRCE	[-0.1467 , -0.07755]	2
ADE-CoForest	[-0.11715 , -0.0689]	2

Table 59: Confidence intervals for algorithm Rasco (NN) ( $\alpha=0.90$ )

$\alpha=0.95$	Confidence interval	Exact confidence
Self-Training (NN)	[-0.15225 , -0.06385]	2
Self-Training (C45)	[-0.15505 , -0.0948]	2
Self-Training (NB)	[-0.1159 , -0.04125]	2
Self-Training (SMO)	[-0.1396 , -0.0745]	2
Co-Training (NN)	[-0.1332 , -0.05675]	2
Co-Training (C45)	[-0.15325 , -0.09165]	2
Co-Training (NB)	[-0.13585 , -0.05885]	2
Co-Training (SMO)	[-0.15375 , -0.08245]	2
Democratic-Co	[-0.1605 , -0.093]	2
SETRED	[-0.15245 , -0.0679]	2
TriTraining (NN)	[-0.14995 , -0.0631]	2
TriTraining (C45)	[-0.1646 , -0.10075]	2
TriTraining (NB)	[-0.136 , -0.0637]	2
TriTraining (SMO)	[-0.1358 , -0.07495]	2
DE-TriTraining (NN)	[-0.13605 , -0.07015]	2
DE-TriTraining (C45)	[-0.13585 , -0.08115]	2
DE-TriTraining (NB)	[-0.1175 , -0.0611]	2
DE-TriTraining (SMO)	[-0.13405 , -0.07735]	2
CoForest	[-0.1594 , -0.08415]	2
Rasco (C45)	[-0.0544 , -0.0221]	2
Rasco (NB)	[-0.08065 , -0.0272]	2
Rasco (SMO)	[-0.041 , -0.01545]	2
Co-Bagging (NN)	[-0.14385 , -0.073]	2
Co-Bagging (C45)	[-0.1611 , -0.10005]	2
Co-Bagging (NB)	[-0.13375 , -0.06365]	2
Co-Bagging (SMO)	[-0.13805 , -0.0776]	2
Rel-Rasco (NN)	[-0.0048 , 0.00085]	2
Rel-Rasco (C45)	[-0.0587 , -0.02505]	2
Rel-Rasco (NB)	[-0.08035 , -0.0253]	2
Rel-Rasco (SMO)	[-0.0394 , -0.01265]	2
CLCC	[-0.07945 , -0.0235]	2
APSSC	[-0.11985 , -0.04605]	2
SNNRCE	[-0.1567 , -0.0746]	2
ADE-CoForest	[-0.1246 , -0.06325]	2

Table 60: Confidence intervals for algorithm Rasco (NN) ( $\alpha=0.95$ )

## 21 Detailed results for Rasco (C45)

### 21.1 Results

VS	$R^+$	$R^-$	Exact P-value	Asymptotic P-value
Self-Training (NN)	358.0	1182.0	-	1
Self-Training (C45)	21.0	1519.0	-	1
Self-Training (NB)	520.0	1020.0	-	1
Self-Training (SMO)	312.0	1228.0	-	1
Co-Training (NN)	413.0	1127.0	-	1
Co-Training (C45)	9.0	1531.0	-	1
Co-Training (NB)	429.0	1111.0	-	1
Co-Training (SMO)	187.0	1353.0	-	1
Democratic-Co	46.0	1494.0	-	1
SETRED	334.0	1206.0	-	1
TriTraining (NN)	354.0	1186.0	-	1
TriTraining (C45)	13.0	1527.0	-	1
TriTraining (NB)	364.5	1175.5	-	1
TriTraining (SMO)	232.0	1308.0	-	1
DE-TriTraining (NN)	313.0	1227.0	-	1
DE-TriTraining (C45)	165.0	1375.0	-	1
DE-TriTraining (NB)	363.5	1176.5	-	1
DE-TriTraining (SMO)	239.0	1301.0	-	1
CoForest	299.0	1241.0	-	1
Rasco (NN)	1242.0	243.0	-	0.000016
Rasco (NB)	618.0	922.0	-	1
Rasco (SMO)	904.0	636.0	-	0.259779
Co-Bagging (NN)	277.0	1263.0	-	1
Co-Bagging (C45)	18.0	1522.0	-	1
Co-Bagging (NB)	366.0	1174.0	-	1
Co-Bagging (SMO)	209.5	1330.5	-	1
Rel-Rasco (NN)	1237.0	248.0	-	0.00002
Rel-Rasco (C45)	636.0	849.0	-	1
Rel-Rasco (NB)	645.0	895.0	-	1
Rel-Rasco (SMO)	927.0	613.0	-	0.186961
CLCC	690.5	849.5	-	1
APSSC	550.0	990.0	-	1
SNNRCE	285.0	1255.0	-	1
ADE-CoForest	425.0	1115.0	-	1

Table 61: Results obtained by the Wilcoxon test for algorithm Rasco (C45)

### 21.2 Confidence intervals for Median of differences

$\alpha=0.90$	Confidence interval	Exact confidence
Self-Training (NN)	[-0.1075 , -0.035]	2
Self-Training (C45)	[-0.1038 , -0.0459]	2
Self-Training (NB)	[-0.06665 , -0.00755]	2
Self-Training (SMO)	[-0.09345 , -0.03825]	2
Co-Training (NN)	[-0.09505 , -0.02795]	2
Co-Training (C45)	[-0.10645 , -0.04755]	2
Co-Training (NB)	[-0.08605 , -0.0219]	2
Co-Training (SMO)	[-0.1058 , -0.05155]	2
Democratic-Co	[-0.1072 , -0.05675]	2
SETRED	[-0.1102 , -0.03725]	2
TriTraining (NN)	[-0.1058 , -0.03395]	2
TriTraining (C45)	[-0.11385 , -0.0544]	2
TriTraining (NB)	[-0.085 , -0.0277]	2
TriTraining (SMO)	[-0.09215 , -0.04075]	2
DE-TriTraining (NN)	[-0.09745 , -0.039]	2
DE-TriTraining (C45)	[-0.0902 , -0.0403]	2
DE-TriTraining (NB)	[-0.07135 , -0.0233]	2
DE-TriTraining (SMO)	[-0.09925 , -0.04545]	2
CoForest	[-0.10835 , -0.04965]	2
Rasco (NN)	[0.02505 , 0.051]	2
Rasco (NB)	[-0.03805 , 0.0044]	2
Rasco (SMO)	[-0.0034 , 0.02295]	2
Co-Bagging (NN)	[-0.1021 , -0.04155]	2
Co-Bagging (C45)	[-0.11105 , -0.05755]	2
Co-Bagging (NB)	[-0.08445 , -0.02665]	2
Co-Bagging (SMO)	[-0.0971 , -0.0429]	2
Rel-Rasco (NN)	[0.02385 , 0.05005]	2
Rel-Rasco (C45)	[-0.0048 , 0.0012]	2
Rel-Rasco (NB)	[-0.03505 , 0.0073]	2
Rel-Rasco (SMO)	[-0.0023 , 0.0261]	2
CLCC	[-0.0391 , 0.01835]	2
APSSC	[-0.07005 , -0.0042]	2
SNNRCE	[-0.1139 , -0.0419]	2
ADE-CoForest	[-0.0894 , -0.0239]	2

Table 62: Confidence intervals for algorithm Rasco (C45) ( $\alpha=0.90$ )

$\alpha=0.95$	Confidence interval	Exact confidence
Self-Training (NN)	[-0.1181 , -0.02895]	2
Self-Training (C45)	[-0.1085 , -0.0419]	2
Self-Training (NB)	[-0.0748 , -0.00245]	2
Self-Training (SMO)	[-0.09935 , -0.03235]	2
Co-Training (NN)	[-0.1022 , -0.0208]	2
Co-Training (C45)	[-0.1121 , -0.04545]	2
Co-Training (NB)	[-0.09285 , -0.01675]	2
Co-Training (SMO)	[-0.1104 , -0.0461]	2
Democratic-Co	[-0.1158 , -0.0525]	2
SETRED	[-0.11895 , -0.03205]	2
TriTraining (NN)	[-0.11405 , -0.02765]	2
TriTraining (C45)	[-0.12305 , -0.05125]	2
TriTraining (NB)	[-0.092 , -0.022]	2
TriTraining (SMO)	[-0.0994 , -0.037]	2
DE-TriTraining (NN)	[-0.1038 , -0.03365]	2
DE-TriTraining (C45)	[-0.0962 , -0.0363]	2
DE-TriTraining (NB)	[-0.0782 , -0.0187]	2
DE-TriTraining (SMO)	[-0.1035 , -0.04135]	2
CoForest	[-0.11585 , -0.0429]	2
Rasco (NN)	[0.0221 , 0.0544]	2
Rasco (NB)	[-0.0435 , 0.00975]	2
Rasco (SMO)	[-0.00625 , 0.0263]	2
Co-Bagging (NN)	[-0.1101 , -0.0357]	2
Co-Bagging (C45)	[-0.1172 , -0.054]	2
Co-Bagging (NB)	[-0.0903 , -0.022]	2
Co-Bagging (SMO)	[-0.10265 , -0.0382]	2
Rel-Rasco (NN)	[0.02095 , 0.0537]	2
Rel-Rasco (C45)	[-0.00545 , 0.0018]	2
Rel-Rasco (NB)	[-0.04 , 0.0128]	2
Rel-Rasco (SMO)	[-0.00505 , 0.0291]	2
CLCC	[-0.04565 , 0.02335]	2
APSSC	[-0.08095 , 0.0021]	2
SNNRCE	[-0.1228 , -0.03675]	2
ADE-CoForest	[-0.0935 , -0.01695]	2

Table 63: Confidence intervals for algorithm Rasco (C45) ( $\alpha=0.95$ )



## 22 Detailed results for Rasco (NB)

### 22.1 Results

VS	$R^+$	$R^-$	Exact P-value	Asymptotic P-value
Self-Training (NN)	355.0	1185.0	-	1
Self-Training (C45)	201.0	1284.0	-	1
Self-Training (NB)	456.5	1083.5	-	1
Self-Training (SMO)	386.0	1154.0	-	1
Co-Training (NN)	440.0	1100.0	-	1
Co-Training (C45)	202.5	1337.5	-	1
Co-Training (NB)	166.0	1374.0	-	1
Co-Training (SMO)	286.0	1254.0	-	1
Democratic-Co	63.0	1477.0	-	1
SETRED	335.0	1205.0	-	1
TriTraining (NN)	345.0	1195.0	-	1
TriTraining (C45)	158.0	1382.0	-	1
TriTraining (NB)	114.0	1426.0	-	1
TriTraining (SMO)	367.0	1173.0	-	1
DE-TriTraining (NN)	320.5	1164.5	-	1
DE-TriTraining (C45)	243.5	1296.5	-	1
DE-TriTraining (NB)	188.0	1297.0	-	1
DE-TriTraining (SMO)	306.5	1233.5	-	1
CoForest	342.0	1198.0	-	1
Rasco (NN)	1215.0	325.0	-	0.000189
Rasco (C45)	922.0	618.0	-	0.201345
Rasco (SMO)	987.0	553.0	-	0.068404
Co-Bagging (NN)	287.0	1253.0	-	1
Co-Bagging (C45)	165.0	1375.0	-	1
Co-Bagging (NB)	109.0	1431.0	-	1
Co-Bagging (SMO)	327.5	1212.5	-	1
Rel-Rasco (NN)	1204.0	336.0	-	0.000272
Rel-Rasco (C45)	912.0	628.0	-	0.2325
Rel-Rasco (NB)	670.0	815.0	-	1
Rel-Rasco (SMO)	989.5	550.5	-	0.064725
CLCC	694.0	846.0	-	1
APSSC	547.0	993.0	-	1
SNNRCE	281.0	1259.0	-	1
ADE-CoForest	378.5	1161.5	-	1

Table 64: Results obtained by the Wilcoxon test for algorithm Rasco (NB)

### 22.2 Confidence intervals for Median of differences

$\alpha=0.90$	Confidence interval	Exact confidence
Self-Training (NN)	[-0.0937 , -0.0309]	2
Self-Training (C45)	[-0.09685 , -0.04965]	2
Self-Training (NB)	[-0.0409 , -0.00535]	2
Self-Training (SMO)	[-0.085 , -0.0289]	2
Co-Training (NN)	[-0.0789 , -0.01875]	2
Co-Training (C45)	[-0.09445 , -0.04795]	2
Co-Training (NB)	[-0.05695 , -0.0181]	2
Co-Training (SMO)	[-0.0889 , -0.0384]	2
Democratic-Co	[-0.09865 , -0.054]	2
SETRED	[-0.09815 , -0.0346]	2
TriTraining (NN)	[-0.0928 , -0.031]	2
TriTraining (C45)	[-0.1037 , -0.05585]	2
TriTraining (NB)	[-0.0605 , -0.02275]	2
TriTraining (SMO)	[-0.07865 , -0.028]	2
DE-TriTraining (NN)	[-0.0841 , -0.03185]	2
DE-TriTraining (C45)	[-0.08175 , -0.03965]	2
DE-TriTraining (NB)	[-0.0436 , -0.01745]	2
DE-TriTraining (SMO)	[-0.084 , -0.03355]	2
CoForest	[-0.1049 , -0.03935]	2
Rasco (NN)	[0.03245 , 0.0752]	2
Rasco (C45)	[-0.0044 , 0.03805]	2
Rasco (SMO)	[0.0028 , 0.0542]	2
Co-Bagging (NN)	[-0.09415 , -0.03695]	2
Co-Bagging (C45)	[-0.0996 , -0.05435]	2
Co-Bagging (NB)	[-0.06165 , -0.0191]	2
Co-Bagging (SMO)	[-0.08165 , -0.03225]	2
Rel-Rasco (NN)	[0.03185 , 0.0741]	2
Rel-Rasco (C45)	[-0.00735 , 0.03465]	2
Rel-Rasco (NB)	[-0.0044 , 0.0019]	2
Rel-Rasco (SMO)	[0.0033 , 0.05845]	2
CLCC	[-0.0261 , 0.01215]	2
APSSC	[-0.06535 , -0.0032]	2
SNNRCE	[-0.101 , -0.03985]	2
ADE-CoForest	[-0.07485 , -0.0229]	2

Table 65: Confidence intervals for algorithm Rasco (NB) ( $\alpha=0.90$ )

$\alpha=0.95$	Confidence interval	Exact confidence
Self-Training (NN)	[-0.1035 , -0.025]	2
Self-Training (C45)	[-0.10155 , -0.04575]	2
Self-Training (NB)	[-0.0464 , -0.00335]	2
Self-Training (SMO)	[-0.0914 , -0.02245]	2
Co-Training (NN)	[-0.08665 , -0.014]	2
Co-Training (C45)	[-0.0986 , -0.04425]	2
Co-Training (NB)	[-0.068 , -0.0164]	2
Co-Training (SMO)	[-0.09395 , -0.03365]	2
Democratic-Co	[-0.10385 , -0.05045]	2
SETRED	[-0.10665 , -0.0285]	2
TriTraining (NN)	[-0.1032 , -0.02425]	2
TriTraining (C45)	[-0.10905 , -0.05115]	2
TriTraining (NB)	[-0.06485 , -0.02085]	2
TriTraining (SMO)	[-0.08495 , -0.0233]	2
DE-TriTraining (NN)	[-0.0879 , -0.02735]	2
DE-TriTraining (C45)	[-0.08635 , -0.03545]	2
DE-TriTraining (NB)	[-0.0501 , -0.0156]	2
DE-TriTraining (SMO)	[-0.09 , -0.029]	2
CoForest	[-0.10915 , -0.03515]	2
Rasco (NN)	[0.0272 , 0.08065]	2
Rasco (C45)	[-0.00975 , 0.0435]	2
Rasco (SMO)	[-0.00255 , 0.0609]	2
Co-Bagging (NN)	[-0.10255 , -0.03105]	2
Co-Bagging (C45)	[-0.105 , -0.051]	2
Co-Bagging (NB)	[-0.0667 , -0.01725]	2
Co-Bagging (SMO)	[-0.0877 , -0.0283]	2
Rel-Rasco (NN)	[0.02655 , 0.0791]	2
Rel-Rasco (C45)	[-0.0111 , 0.0401]	2
Rel-Rasco (NB)	[-0.00505 , 0.0024]	2
Rel-Rasco (SMO)	[-0.00165 , 0.06375]	2
CLCC	[-0.0305 , 0.015]	2
APSSC	[-0.0715 , 0.0016]	2
SNNRCE	[-0.1072 , -0.0354]	2
ADE-CoForest	[-0.08 , -0.0193]	2

Table 66: Confidence intervals for algorithm Rasco (NB) ( $\alpha=0.95$ )

## 23 Detailed results for Rasco (SMO)

### 23.1 Results

VS	$R^+$	$R^-$	Exact P-value	Asymptotic P-value
Self-Training (NN)	277.0	1263.0	-	1
Self-Training (C45)	128.0	1412.0	-	1
Self-Training (NB)	444.0	1096.0	-	1
Self-Training (SMO)	175.0	1365.0	-	1
Co-Training (NN)	375.0	1165.0	-	1
Co-Training (C45)	134.0	1406.0	-	1
Co-Training (NB)	351.5	1188.5	-	1
Co-Training (SMO)	87.0	1453.0	-	1
Democratic-Co	104.0	1436.0	-	1
SETRED	256.5	1283.5	-	1
TriTraining (NN)	273.0	1267.0	-	1
TriTraining (C45)	109.5	1430.5	-	1
TriTraining (NB)	320.0	1220.0	-	1
TriTraining (SMO)	77.0	1463.0	-	1
DE-TriTraining (NN)	268.0	1272.0	-	1
DE-TriTraining (C45)	184.0	1356.0	-	1
DE-TriTraining (NB)	337.0	1203.0	-	1
DE-TriTraining (SMO)	127.0	1413.0	-	1
CoForest	272.0	1268.0	-	1
Rasco (NN)	1239.0	301.0	-	0.000084
Rasco (C45)	636.0	904.0	-	1
Rasco (NB)	553.0	987.0	-	1
Co-Bagging (NN)	224.0	1316.0	-	1
Co-Bagging (C45)	84.0	1456.0	-	1
Co-Bagging (NB)	312.0	1228.0	-	1
Co-Bagging (SMO)	57.0	1483.0	-	1
Rel-Rasco (NN)	1185.0	355.0	-	0.000492
Rel-Rasco (C45)	600.0	940.0	-	1
Rel-Rasco (NB)	567.0	973.0	-	1
Rel-Rasco (SMO)	899.5	640.5	-	0.275558
CLCC	594.0	946.0	-	1
APSSC	475.5	1064.5	-	1
SNNRCE	208.0	1332.0	-	1
ADE-CoForest	343.0	1197.0	-	1

Table 67: Results obtained by the Wilcoxon test for algorithm Rasco (SMO)

### 23.2 Confidence intervals for Median of differences

$\alpha=0.90$	Confidence interval	Exact confidence
Self-Training (NN)	[-0.1317 , -0.043]	2
Self-Training (C45)	[-0.12805 , -0.06265]	2
Self-Training (NB)	[-0.08525 , -0.019]	2
Self-Training (SMO)	[-0.106 , -0.04675]	2
Co-Training (NN)	[-0.11325 , -0.0335]	2
Co-Training (C45)	[-0.1279 , -0.06595]	2
Co-Training (NB)	[-0.10405 , -0.03665]	2
Co-Training (SMO)	[-0.1162 , -0.06345]	2
Democratic-Co	[-0.13355 , -0.06875]	2
SETRED	[-0.13215 , -0.0464]	2
TriTraining (NN)	[-0.1266 , -0.0417]	2
TriTraining (C45)	[-0.1404 , -0.0712]	2
TriTraining (NB)	[-0.10945 , -0.04115]	2
TriTraining (SMO)	[-0.0985 , -0.0473]	2
DE-TriTraining (NN)	[-0.1182 , -0.04645]	2
DE-TriTraining (C45)	[-0.1106 , -0.05215]	2
DE-TriTraining (NB)	[-0.094 , -0.03235]	2
DE-TriTraining (SMO)	[-0.1156 , -0.05205]	2
CoForest	[-0.13305 , -0.05715]	2
Rasco (NN)	[0.01745 , 0.03915]	2
Rasco (C45)	[-0.02295 , 0.0034]	2
Rasco (NB)	[-0.0542 , -0.0028]	2
Co-Bagging (NN)	[-0.12785 , -0.04735]	2
Co-Bagging (C45)	[-0.13375 , -0.07165]	2
Co-Bagging (NB)	[-0.10625 , -0.04045]	2
Co-Bagging (SMO)	[-0.10495 , -0.0479]	2
Rel-Rasco (NN)	[0.01505 , 0.0384]	2
Rel-Rasco (C45)	[-0.02745 , 0.0017]	2
Rel-Rasco (NB)	[-0.0519 , -0.0013]	2
Rel-Rasco (SMO)	[-0.0008 , 0.00485]	2
CLCC	[-0.05895 , 0.0035]	2
APSSC	[-0.09325 , -0.01815]	2
SNNRCE	[-0.1378 , -0.05055]	2
ADE-CoForest	[-0.1051 , -0.03895]	2

Table 68: Confidence intervals for algorithm Rasco (SMO) ( $\alpha=0.90$ )

$\alpha=0.95$	Confidence interval	Exact confidence
Self-Training (NN)	[-0.14045 , -0.0374]	2
Self-Training (C45)	[-0.13575 , -0.05765]	2
Self-Training (NB)	[-0.09185 , -0.0143]	2
Self-Training (SMO)	[-0.1133 , -0.0423]	2
Co-Training (NN)	[-0.1222 , -0.0274]	2
Co-Training (C45)	[-0.1356 , -0.0616]	2
Co-Training (NB)	[-0.1124 , -0.0301]	2
Co-Training (SMO)	[-0.12515 , -0.0567]	2
Democratic-Co	[-0.1396 , -0.0623]	2
SETRED	[-0.14165 , -0.0401]	2
TriTraining (NN)	[-0.135 , -0.03445]	2
TriTraining (C45)	[-0.14615 , -0.06615]	2
TriTraining (NB)	[-0.11645 , -0.03435]	2
TriTraining (SMO)	[-0.10485 , -0.0445]	2
DE-TriTraining (NN)	[-0.1258 , -0.04135]	2
DE-TriTraining (C45)	[-0.1198 , -0.04785]	2
DE-TriTraining (NB)	[-0.1007 , -0.02695]	2
DE-TriTraining (SMO)	[-0.12235 , -0.04815]	2
CoForest	[-0.142 , -0.05225]	2
Rasco (NN)	[0.01545 , 0.041]	2
Rasco (C45)	[-0.0263 , 0.00625]	2
Rasco (NB)	[-0.0609 , 0.00255]	2
Co-Bagging (NN)	[-0.13695 , -0.0429]	2
Co-Bagging (C45)	[-0.1422 , -0.06665]	2
Co-Bagging (NB)	[-0.11245 , -0.03585]	2
Co-Bagging (SMO)	[-0.11705 , -0.0435]	2
Rel-Rasco (NN)	[0.01235 , 0.0415]	2
Rel-Rasco (C45)	[-0.0306 , 0.00445]	2
Rel-Rasco (NB)	[-0.059 , 0.00455]	2
Rel-Rasco (SMO)	[-0.0015 , 0.006]	2
CLCC	[-0.06505 , 0.01025]	2
APSSC	[-0.10225 , -0.012]	2
SNNRCE	[-0.1458 , -0.04495]	2
ADE-CoForest	[-0.11255 , -0.03305]	2

Table 69: Confidence intervals for algorithm Rasco (SMO) ( $\alpha=0.95$ )

## 24 Detailed results for Co-Bagging (NN)

### 24.1 Results

VS	$R^+$	$R^-$	Exact P-value	Asymptotic P-value
Self-Training (NN)	943.0	597.0	-	0.144769
Self-Training (C45)	655.5	884.5	-	1
Self-Training (NB)	1104.5	435.5	-	0.004913
Self-Training (SMO)	869.0	671.0	-	0.404469
Co-Training (NN)	1091.0	449.0	-	0.007066
Co-Training (C45)	677.0	863.0	-	1
Co-Training (NB)	975.0	565.0	-	0.084454
Co-Training (SMO)	726.0	814.0	-	1
Democratic-Co	454.0	1031.0	-	1
SETRED	812.5	727.5	-	0.718074
TriTraining (NN)	920.0	620.0	-	0.207319
TriTraining (C45)	570.5	969.5	-	1
TriTraining (NB)	891.0	594.0	-	0.199519
TriTraining (SMO)	781.5	758.5	-	0.919746
DE-TriTraining (NN)	974.5	565.5	-	0.083579
DE-TriTraining (C45)	813.5	726.5	-	0.712096
DE-TriTraining (NB)	1051.5	488.5	-	0.018019
DE-TriTraining (SMO)	678.0	862.0	-	1
CoForest	639.0	901.0	-	1
Rasco (NN)	1537.0	3.0	-	0
Rasco (C45)	1263.0	277.0	-	0.000034
Rasco (NB)	1253.0	287.0	-	0.000051
Rasco (SMO)	1316.0	224.0	-	0.000005
Co-Bagging (C45)	546.0	939.0	-	1
Co-Bagging (NB)	1004.5	535.5	-	0.048249
Co-Bagging (SMO)	691.5	848.5	-	1
Rel-Rasco (NN)	1536.0	4.0	-	0
Rel-Rasco (C45)	1258.0	282.0	-	0.000043
Rel-Rasco (NB)	1236.0	304.0	-	0.00009
Rel-Rasco (SMO)	1326.0	214.0	-	0.000003
CLCC	1283.0	257.0	-	0.000017
APSSC	1101.5	438.5	-	0.005359
SNNRCE	606.5	933.5	-	1
ADE-CoForest	881.0	659.0	-	0.34868

Table 70: Results obtained by the Wilcoxon test for algorithm Co-Bagging (NN)

### 24.2 Confidence intervals for Median of differences

$\alpha=0.90$	Confidence interval	Exact confidence
Self-Training (NN)	[-0.00075 , 0.01095]	2
Self-Training (C45)	[-0.01635 , 0.005]	2
Self-Training (NB)	[0.013 , 0.05085]	2
Self-Training (SMO)	[-0.0057 , 0.02225]	2
Co-Training (NN)	[0.0053 , 0.02185]	2
Co-Training (C45)	[-0.0184 , 0.007]	2
Co-Training (NB)	[0.00105 , 0.0337]	2
Co-Training (SMO)	[-0.0126 , 0.0087]	2
Democratic-Co	[-0.01985 , -0.0035]	2
SETRED	[-0.00495 , 0.00635]	2
TriTraining (NN)	[-0.00165 , 0.0081]	2
TriTraining (C45)	[-0.0227 , -0.00065]	2
TriTraining (NB)	[-0.00315 , 0.03385]	2
TriTraining (SMO)	[-0.0098 , 0.01035]	2
DE-TriTraining (NN)	[0.00025 , 0.0106]	2
DE-TriTraining (C45)	[-0.0064 , 0.0106]	2
DE-TriTraining (NB)	[0.00635 , 0.03955]	2
DE-TriTraining (SMO)	[-0.0066 , 0.00295]	2
CoForest	[-0.0185 , 0.00335]	2
Rasco (NN)	[0.07925 , 0.13505]	2
Rasco (C45)	[0.04155 , 0.1021]	2
Rasco (NB)	[0.03695 , 0.09415]	2
Rasco (SMO)	[0.04735 , 0.12785]	2
Co-Bagging (C45)	[-0.02395 , -0.00035]	2
Co-Bagging (NB)	[0.0028 , 0.03325]	2
Co-Bagging (SMO)	[-0.0121 , 0.00625]	2
Rel-Rasco (NN)	[0.07895 , 0.13525]	2
Rel-Rasco (C45)	[0.0405 , 0.0995]	2
Rel-Rasco (NB)	[0.0355 , 0.0907]	2
Rel-Rasco (SMO)	[0.04975 , 0.1357]	2
CLCC	[0.0242 , 0.0809]	2
APSSC	[0.0104 , 0.044]	2
SNNRCE	[-0.00665 , 0.00055]	2
ADE-CoForest	[-0.0023 , 0.01395]	2

Table 71: Confidence intervals for algorithm Co-Bagging (NN) ( $\alpha=0.90$ )



$\alpha=0.95$	Confidence interval	Exact confidence
Self-Training (NN)	[-0.00225 , 0.0121]	2
Self-Training (C45)	[-0.0188 , 0.00715]	2
Self-Training (NB)	[0.0092 , 0.05585]	2
Self-Training (SMO)	[-0.00825 , 0.0256]	2
Co-Training (NN)	[0.00365 , 0.02415]	2
Co-Training (C45)	[-0.021 , 0.01005]	2
Co-Training (NB)	[-0.00185 , 0.03795]	2
Co-Training (SMO)	[-0.0156 , 0.01115]	2
Democratic-Co	[-0.02115 , -0.00215]	2
SETRED	[-0.0063 , 0.0072]	2
TriTraining (NN)	[-0.0031 , 0.0091]	2
TriTraining (C45)	[-0.0247 , 0.00225]	2
TriTraining (NB)	[-0.0063 , 0.038]	2
TriTraining (SMO)	[-0.0117 , 0.0123]	2
DE-TriTraining (NN)	[-0.0004 , 0.01165]	2
DE-TriTraining (C45)	[-0.00815 , 0.0123]	2
DE-TriTraining (NB)	[0.0037 , 0.04375]	2
DE-TriTraining (SMO)	[-0.00735 , 0.00375]	2
CoForest	[-0.0215 , 0.0061]	2
Rasco (NN)	[0.073 , 0.14385]	2
Rasco (C45)	[0.0357 , 0.1101]	2
Rasco (NB)	[0.03105 , 0.10255]	2
Rasco (SMO)	[0.0429 , 0.13695]	2
Co-Bagging (C45)	[-0.02615 , 0.00215]	2
Co-Bagging (NB)	[0.0001 , 0.0373]	2
Co-Bagging (SMO)	[-0.0137 , 0.00865]	2
Rel-Rasco (NN)	[0.0741 , 0.14435]	2
Rel-Rasco (C45)	[0.0338 , 0.10615]	2
Rel-Rasco (NB)	[0.03275 , 0.0969]	2
Rel-Rasco (SMO)	[0.0431 , 0.1444]	2
CLCC	[0.0217 , 0.0901]	2
APSSC	[0.0077 , 0.0467]	2
SNNRCE	[-0.00755 , 0.00135]	2
ADE-CoForest	[-0.00305 , 0.0168]	2

Table 72: Confidence intervals for algorithm Co-Bagging (NN) ( $\alpha=0.95$ )

## 25 Detailed results for Co-Bagging (C45)

### 25.1 Results

VS	$R^+$	$R^-$	Exact P-value	Asymptotic P-value
Self-Training (NN)	948.0	592.0	-	0.134766
Self-Training (C45)	1096.0	389.0	-	0.002254
Self-Training (NB)	1225.0	315.0	-	0.000135
Self-Training (SMO)	996.0	544.0	-	0.05773
Co-Training (NN)	1083.0	457.0	-	0.008484
Co-Training (C45)	1124.0	361.0	-	0.000968
Co-Training (NB)	1108.0	432.0	-	0.004524
Co-Training (SMO)	927.0	613.0	-	0.1865
Democratic-Co	732.0	808.0	-	1
SETRED	915.0	625.0	-	0.222814
TriTraining (NN)	969.0	571.0	-	0.094619
TriTraining (C45)	722.5	817.5	-	1
TriTraining (NB)	1095.5	444.5	-	0.006144
TriTraining (SMO)	967.0	573.0	-	0.097621
DE-TriTraining (NN)	1003.0	537.0	-	0.050178
DE-TriTraining (C45)	1211.0	329.0	-	0.000216
DE-TriTraining (NB)	1257.0	283.0	-	0.000044
DE-TriTraining (SMO)	1025.0	515.0	-	0.032297
CoForest	632.0	908.0	-	1
Rasco (NN)	1532.0	8.0	-	0
Rasco (C45)	1522.0	18.0	-	0
Rasco (NB)	1375.0	165.0	-	0
Rasco (SMO)	1456.0	84.0	-	0
Co-Bagging (NN)	939.0	546.0	-	0.089155
Co-Bagging (NB)	1155.0	385.0	-	0.001238
Co-Bagging (SMO)	962.0	578.0	-	0.106773
Rel-Rasco (NN)	1528.0	12.0	-	0
Rel-Rasco (C45)	1516.0	24.0	-	0
Rel-Rasco (NB)	1386.0	154.0	-	0
Rel-Rasco (SMO)	1461.0	79.0	-	0
CLCC	1310.0	230.0	-	0.000006
APSSC	1141.5	398.5	-	0.001808
SNNRCE	871.5	668.5	-	0.39227
ADE-CoForest	1073.0	467.0	-	0.010662

Table 73: Results obtained by the Wilcoxon test for algorithm Co-Bagging (C45)

### 25.2 Confidence intervals for Median of differences

$\alpha=0.90$	Confidence interval	Exact confidence
Self-Training (NN)	[-0.00105 , 0.0323]	2
Self-Training (C45)	[0.00245 , 0.00885]	2
Self-Training (NB)	[0.02865 , 0.06565]	2
Self-Training (SMO)	[0.00235 , 0.0339]	2
Co-Training (NN)	[0.0095 , 0.04015]	2
Co-Training (C45)	[0.00295 , 0.0107]	2
Co-Training (NB)	[0.01375 , 0.04775]	2
Co-Training (SMO)	[-0.0025 , 0.025]	2
Democratic-Co	[-0.01015 , 0.0063]	2
SETRED	[-0.0042 , 0.0282]	2
TriTraining (NN)	[0.00035 , 0.03155]	2
TriTraining (C45)	[-0.0028 , 0.00145]	2
TriTraining (NB)	[0.0127 , 0.0466]	2
TriTraining (SMO)	[0.0001 , 0.03315]	2
DE-TriTraining (NN)	[0.00255 , 0.0291]	2
DE-TriTraining (C45)	[0.0087 , 0.02345]	2
DE-TriTraining (NB)	[0.0252 , 0.05345]	2
DE-TriTraining (SMO)	[0.0039 , 0.0292]	2
CoForest	[-0.0147 , 0.0037]	2
Rasco (NN)	[0.10575 , 0.15575]	2
Rasco (C45)	[0.05755 , 0.11105]	2
Rasco (NB)	[0.05435 , 0.0996]	2
Rasco (SMO)	[0.07165 , 0.13375]	2
Co-Bagging (NN)	[0.00035 , 0.02395]	2
Co-Bagging (NB)	[0.01725 , 0.04805]	2
Co-Bagging (SMO)	[-0.0003 , 0.02885]	2
Rel-Rasco (NN)	[0.104 , 0.15675]	2
Rel-Rasco (C45)	[0.05745 , 0.10725]	2
Rel-Rasco (NB)	[0.0542 , 0.1009]	2
Rel-Rasco (SMO)	[0.07415 , 0.14065]	2
CLCC	[0.0388 , 0.09115]	2
APSSC	[0.01995 , 0.06275]	2
SNNRCE	[-0.0071 , 0.02115]	2
ADE-CoForest	[0.00705 , 0.0334]	2

Table 74: Confidence intervals for algorithm Co-Bagging (C45) ( $\alpha=0.90$ )

$\alpha=0.95$	Confidence interval	Exact confidence
Self-Training (NN)	[-0.0041 , 0.03575]	2
Self-Training (C45)	[0.0019 , 0.00945]	2
Self-Training (NB)	[0.0247 , 0.06955]	2
Self-Training (SMO)	[-0.0004 , 0.03635]	2
Co-Training (NN)	[0.0071 , 0.04415]	2
Co-Training (C45)	[0.0022 , 0.01155]	2
Co-Training (NB)	[0.0104 , 0.0521]	2
Co-Training (SMO)	[-0.00485 , 0.0278]	2
Democratic-Co	[-0.01155 , 0.0076]	2
SETRED	[-0.00755 , 0.03185]	2
TriTraining (NN)	[-0.0029 , 0.0347]	2
TriTraining (C45)	[-0.00325 , 0.0018]	2
TriTraining (NB)	[0.0096 , 0.04985]	2
TriTraining (SMO)	[-0.00235 , 0.03875]	2
DE-TriTraining (NN)	[-0.0002 , 0.03195]	2
DE-TriTraining (C45)	[0.00755 , 0.025]	2
DE-TriTraining (NB)	[0.02195 , 0.0562]	2
DE-TriTraining (SMO)	[0.0015 , 0.0315]	2
CoForest	[-0.01725 , 0.00555]	2
Rasco (NN)	[0.10005 , 0.1611]	2
Rasco (C45)	[0.054 , 0.1172]	2
Rasco (NB)	[0.051 , 0.105]	2
Rasco (SMO)	[0.06665 , 0.1422]	2
Co-Bagging (NN)	[-0.00215 , 0.02615]	2
Co-Bagging (NB)	[0.01485 , 0.05045]	2
Co-Bagging (SMO)	[-0.00295 , 0.03255]	2
Rel-Rasco (NN)	[0.09905 , 0.16105]	2
Rel-Rasco (C45)	[0.0535 , 0.11305]	2
Rel-Rasco (NB)	[0.04915 , 0.106]	2
Rel-Rasco (SMO)	[0.06925 , 0.1459]	2
CLCC	[0.03495 , 0.10045]	2
APSSC	[0.0161 , 0.06945]	2
SNNRCE	[-0.0098 , 0.0242]	2
ADE-CoForest	[0.0043 , 0.03705]	2

Table 75: Confidence intervals for algorithm Co-Bagging (C45) ( $\alpha=0.95$ )

## 26 Detailed results for Co-Bagging (NB)

### 26.1 Results

VS	$R^+$	$R^-$	Exact P-value	Asymptotic P-value
Self-Training (NN)	631.5	908.5	-	1
Self-Training (C45)	432.0	1108.0	-	1
Self-Training (NB)	1186.0	354.0	-	0.000477
Self-Training (SMO)	631.0	909.0	-	1
Co-Training (NN)	725.0	815.0	-	1
Co-Training (C45)	447.5	1092.5	-	1
Co-Training (NB)	723.5	816.5	-	1
Co-Training (SMO)	585.0	955.0	-	1
Democratic-Co	203.0	1337.0	-	1
SETRED	592.5	947.5	-	1
TriTraining (NN)	633.0	907.0	-	1
TriTraining (C45)	367.0	1173.0	-	1
TriTraining (NB)	405.5	1134.5	-	1
TriTraining (SMO)	668.0	872.0	-	1
DE-TriTraining (NN)	627.0	913.0	-	1
DE-TriTraining (C45)	568.0	972.0	-	1
DE-TriTraining (NB)	889.0	651.0	-	0.31519
DE-TriTraining (SMO)	626.0	914.0	-	1
CoForest	486.5	1053.5	-	1
Rasco (NN)	1414.5	125.5	-	0
Rasco (C45)	1174.0	366.0	-	0.000701
Rasco (NB)	1431.0	109.0	-	0
Rasco (SMO)	1228.0	312.0	-	0.000122
Co-Bagging (NN)	535.5	1004.5	-	1
Co-Bagging (C45)	385.0	1155.0	-	1
Co-Bagging (SMO)	616.0	924.0	-	1
Rel-Rasco (NN)	1408.0	132.0	-	0
Rel-Rasco (C45)	1174.0	366.0	-	0.000692
Rel-Rasco (NB)	1433.0	107.0	-	0
Rel-Rasco (SMO)	1244.0	296.0	-	0.00007
CLCC	1122.0	418.0	-	0.003111
APSSC	768.0	717.0	-	0.822862
SNNRCE	517.0	1023.0	-	1
ADE-CoForest	655.5	884.5	-	1

Table 76: Results obtained by the Wilcoxon test for algorithm Co-Bagging (NB)

### 26.2 Confidence intervals for Median of differences

$\alpha=0.90$	Confidence interval	Exact confidence
Self-Training (NN)	[-0.03755 , 0.0068]	2
Self-Training (C45)	[-0.0409 , -0.0124]	2
Self-Training (NB)	[0.00725 , 0.0181]	2
Self-Training (SMO)	[-0.03505 , 0.00635]	2
Co-Training (NN)	[-0.02525 , 0.01445]	2
Co-Training (C45)	[-0.0407 , -0.01145]	2
Co-Training (NB)	[-0.00355 , 0.00205]	2
Co-Training (SMO)	[-0.0379 , 0.0012]	2
Democratic-Co	[-0.03945 , -0.0185]	2
SETRED	[-0.04145 , 0.00185]	2
TriTraining (NN)	[-0.0369 , 0.00575]	2
TriTraining (C45)	[-0.0479 , -0.01855]	2
TriTraining (NB)	[-0.0078 , -0.0024]	2
TriTraining (SMO)	[-0.03175 , 0.0102]	2
DE-TriTraining (NN)	[-0.0296 , 0.0036]	2
DE-TriTraining (C45)	[-0.0286 , -0.0003]	2
DE-TriTraining (NB)	[-0.00185 , 0.00945]	2
DE-TriTraining (SMO)	[-0.03055 , 0.00495]	2
CoForest	[-0.05185 , -0.0108]	2
Rasco (NN)	[0.06805 , 0.1278]	2
Rasco (C45)	[0.02665 , 0.08445]	2
Rasco (NB)	[0.0191 , 0.06165]	2
Rasco (SMO)	[0.04045 , 0.10625]	2
Co-Bagging (NN)	[-0.03325 , -0.0028]	2
Co-Bagging (C45)	[-0.04805 , -0.01725]	2
Co-Bagging (SMO)	[-0.03465 , 0.00415]	2
Rel-Rasco (NN)	[0.06655 , 0.1259]	2
Rel-Rasco (C45)	[0.02595 , 0.07975]	2
Rel-Rasco (NB)	[0.0189 , 0.0529]	2
Rel-Rasco (SMO)	[0.0423 , 0.1091]	2
CLCC	[0.01135 , 0.041]	2
APSSC	[-0.01565 , 0.02665]	2
SNNRCE	[-0.04245 , -0.0044]	2
ADE-CoForest	[-0.0221 , 0.00435]	2

Table 77: Confidence intervals for algorithm Co-Bagging (NB) ( $\alpha=0.90$ )

$\alpha=0.95$	Confidence interval	Exact confidence
Self-Training (NN)	[-0.0442 , 0.01]	2
Self-Training (C45)	[-0.04415 , -0.0095]	2
Self-Training (NB)	[0.00635 , 0.0193]	2
Self-Training (SMO)	[-0.0399 , 0.01035]	2
Co-Training (NN)	[-0.0299 , 0.01855]	2
Co-Training (C45)	[-0.04325 , -0.0087]	2
Co-Training (NB)	[-0.00435 , 0.0026]	2
Co-Training (SMO)	[-0.04255 , 0.0042]	2
Democratic-Co	[-0.0424 , -0.01725]	2
SETRED	[-0.04635 , 0.0054]	2
TriTraining (NN)	[-0.042 , 0.00905]	2
TriTraining (C45)	[-0.0511 , -0.0165]	2
TriTraining (NB)	[-0.0083 , -0.00185]	2
TriTraining (SMO)	[-0.03685 , 0.01445]	2
DE-TriTraining (NN)	[-0.03225 , 0.00755]	2
DE-TriTraining (C45)	[-0.03155 , 0.00225]	2
DE-TriTraining (NB)	[-0.0028 , 0.011]	2
DE-TriTraining (SMO)	[-0.0344 , 0.00785]	2
CoForest	[-0.055 , -0.0063]	2
Rasco (NN)	[0.06365 , 0.13375]	2
Rasco (C45)	[0.022 , 0.0903]	2
Rasco (NB)	[0.01725 , 0.0667]	2
Rasco (SMO)	[0.03585 , 0.11245]	2
Co-Bagging (NN)	[-0.0373 , -0.0001]	2
Co-Bagging (C45)	[-0.05045 , -0.01485]	2
Co-Bagging (SMO)	[-0.03935 , 0.00835]	2
Rel-Rasco (NN)	[0.06135 , 0.13285]	2
Rel-Rasco (C45)	[0.02135 , 0.0858]	2
Rel-Rasco (NB)	[0.0166 , 0.05675]	2
Rel-Rasco (SMO)	[0.0365 , 0.11695]	2
CLCC	[0.0084 , 0.04535]	2
APSSC	[-0.0192 , 0.033]	2
SNNRCE	[-0.0465 , -0.0014]	2
ADE-CoForest	[-0.02435 , 0.0071]	2

Table 78: Confidence intervals for algorithm Co-Bagging (NB) ( $\alpha=0.95$ )

## 27 Detailed results for Co-Bagging (SMO)

### 27.1 Results

VS	$R^+$	$R^-$	Exact P-value	Asymptotic P-value
Self-Training (NN)	932.0	608.0	-	0.173351
Self-Training (C45)	658.5	881.5	-	1
Self-Training (NB)	1069.0	471.0	-	0.012094
Self-Training (SMO)	915.5	624.5	-	0.219776
Co-Training (NN)	1027.0	513.0	-	0.030969
Co-Training (C45)	653.5	886.5	-	1
Co-Training (NB)	945.5	594.5	-	0.139898
Co-Training (SMO)	667.0	818.0	-	1
Democratic-Co	562.5	977.5	-	1
SETRED	872.5	667.5	-	0.387645
TriTraining (NN)	989.0	551.0	-	0.065902
TriTraining (C45)	583.0	957.0	-	1
TriTraining (NB)	912.0	628.0	-	0.2325
TriTraining (SMO)	930.5	609.5	-	0.1769
DE-TriTraining (NN)	847.0	638.0	-	0.365957
DE-TriTraining (C45)	742.0	743.0	-	1
DE-TriTraining (NB)	953.0	587.0	-	0.12418
DE-TriTraining (SMO)	764.5	720.5	-	0.84606
CoForest	672.5	867.5	-	1
Rasco (NN)	1535.0	5.0	-	0
Rasco (C45)	1330.5	209.5	-	0.000003
Rasco (NB)	1212.5	327.5	-	0.0002
Rasco (SMO)	1483.0	57.0	-	0
Co-Bagging (NN)	848.5	691.5	-	0.506696
Co-Bagging (C45)	578.0	962.0	-	1
Co-Bagging (NB)	924.0	616.0	-	0.19503
Rel-Rasco (NN)	1534.0	6.0	-	0
Rel-Rasco (C45)	1317.0	223.0	-	0.000004
Rel-Rasco (NB)	1225.0	315.0	-	0.000133
Rel-Rasco (SMO)	1489.0	51.0	-	0
CLCC	1123.0	417.0	-	0.003028
APSSC	1069.5	470.5	-	0.011863
SNNRCE	791.0	749.0	-	0.856895
ADE-CoForest	913.0	627.0	-	0.228751

Table 79: Results obtained by the Wilcoxon test for algorithm Co-Bagging (SMO)

### 27.2 Confidence intervals for Median of differences



$\alpha=0.90$	Confidence interval	Exact confidence
Self-Training (NN)	[-0.0013 , 0.018]	2
Self-Training (C45)	[-0.02525 , 0.0058]	2
Self-Training (NB)	[0.00935 , 0.0511]	2
Self-Training (SMO)	[-0.00105 , 0.0094]	2
Co-Training (NN)	[0.0046 , 0.02945]	2
Co-Training (C45)	[-0.0231 , 0.0068]	2
Co-Training (NB)	[-0.0016 , 0.0394]	2
Co-Training (SMO)	[-0.00465 , 0.0023]	2
Democratic-Co	[-0.0281 , -0.00065]	2
SETRED	[-0.0046 , 0.01385]	2
TriTraining (NN)	[0.0011 , 0.01855]	2
TriTraining (C45)	[-0.0291 , 0.00055]	2
TriTraining (NB)	[-0.0048 , 0.03505]	2
TriTraining (SMO)	[-0.0003 , 0.00395]	2
DE-TriTraining (NN)	[-0.00555 , 0.01685]	2
DE-TriTraining (C45)	[-0.0145 , 0.0143]	2
DE-TriTraining (NB)	[-0.00085 , 0.03935]	2
DE-TriTraining (SMO)	[-0.0078 , 0.00845]	2
CoForest	[-0.01985 , 0.00765]	2
Rasco (NN)	[0.08095 , 0.13065]	2
Rasco (C45)	[0.0429 , 0.0971]	2
Rasco (NB)	[0.03225 , 0.08165]	2
Rasco (SMO)	[0.0479 , 0.10495]	2
Co-Bagging (NN)	[-0.00625 , 0.0121]	2
Co-Bagging (C45)	[-0.02885 , 0.0003]	2
Co-Bagging (NB)	[-0.00415 , 0.03465]	2
Rel-Rasco (NN)	[0.0785 , 0.1301]	2
Rel-Rasco (C45)	[0.0392 , 0.09525]	2
Rel-Rasco (NB)	[0.0349 , 0.08435]	2
Rel-Rasco (SMO)	[0.051 , 0.1148]	2
CLCC	[0.01865 , 0.08455]	2
APSSC	[0.0118 , 0.0573]	2
SNNRCE	[-0.0073 , 0.0085]	2
ADE-CoForest	[-0.00325 , 0.0254]	2

Table 80: Confidence intervals for algorithm Co-Bagging (SMO) ( $\alpha=0.90$ )

$\alpha=0.95$	Confidence interval	Exact confidence
Self-Training (NN)	[-0.00335 , 0.0205]	2
Self-Training (C45)	[-0.0288 , 0.0091]	2
Self-Training (NB)	[0.0062 , 0.0555]	2
Self-Training (SMO)	[-0.002 , 0.0111]	2
Co-Training (NN)	[0.00205 , 0.03275]	2
Co-Training (C45)	[-0.027 , 0.00925]	2
Co-Training (NB)	[-0.00695 , 0.04255]	2
Co-Training (SMO)	[-0.0062 , 0.00305]	2
Democratic-Co	[-0.0306 , 0.00135]	2
SETRED	[-0.00635 , 0.01605]	2
TriTraining (NN)	[-0.00055 , 0.02]	2
TriTraining (C45)	[-0.03295 , 0.00315]	2
TriTraining (NB)	[-0.0095 , 0.0405]	2
TriTraining (SMO)	[-0.0007 , 0.005]	2
DE-TriTraining (NN)	[-0.0079 , 0.02075]	2
DE-TriTraining (C45)	[-0.0174 , 0.0169]	2
DE-TriTraining (NB)	[-0.0063 , 0.04375]	2
DE-TriTraining (SMO)	[-0.0094 , 0.01005]	2
CoForest	[-0.02265 , 0.01025]	2
Rasco (NN)	[0.0776 , 0.13805]	2
Rasco (C45)	[0.0382 , 0.10265]	2
Rasco (NB)	[0.0283 , 0.0877]	2
Rasco (SMO)	[0.0435 , 0.11705]	2
Co-Bagging (NN)	[-0.00865 , 0.0137]	2
Co-Bagging (C45)	[-0.03255 , 0.00295]	2
Co-Bagging (NB)	[-0.00835 , 0.03935]	2
Rel-Rasco (NN)	[0.0757 , 0.13665]	2
Rel-Rasco (C45)	[0.035 , 0.0999]	2
Rel-Rasco (NB)	[0.0291 , 0.0889]	2
Rel-Rasco (SMO)	[0.04675 , 0.12405]	2
CLCC	[0.0143 , 0.09245]	2
APSSC	[0.00655 , 0.0606]	2
SNNRCE	[-0.00955 , 0.0105]	2
ADE-CoForest	[-0.00605 , 0.02835]	2

Table 81: Confidence intervals for algorithm Co-Bagging (SMO) ( $\alpha=0.95$ )

## 28 Detailed results for Rel-Rasco (NN)

### 28.1 Results

VS	$R^+$	$R^-$	Exact P-value	Asymptotic P-value
Self-Training (NN)	11.5	1528.5	-	1
Self-Training (C45)	30.0	1510.0	-	1
Self-Training (NB)	261.5	1278.5	-	1
Self-Training (SMO)	84.0	1456.0	-	1
Co-Training (NN)	101.0	1439.0	-	1
Co-Training (C45)	28.0	1512.0	-	1
Co-Training (NB)	157.0	1383.0	-	1
Co-Training (SMO)	37.0	1503.0	-	1
Democratic-Co	0.0	1540.0	-	1
SETRED	6.0	1479.0	-	1
TriTraining (NN)	13.0	1527.0	-	1
TriTraining (C45)	15.0	1525.0	-	1
TriTraining (NB)	125.0	1415.0	-	1
TriTraining (SMO)	48.0	1492.0	-	1
DE-TriTraining (NN)	34.0	1506.0	-	1
DE-TriTraining (C45)	31.0	1509.0	-	1
DE-TriTraining (NB)	132.0	1408.0	-	1
DE-TriTraining (SMO)	5.0	1535.0	-	1
CoForest	153.5	1386.5	-	1
Rasco (NN)	931.5	608.5	-	0.17242
Rasco (C45)	248.0	1237.0	-	1
Rasco (NB)	336.0	1204.0	-	1
Rasco (SMO)	355.0	1185.0	-	1
Co-Bagging (NN)	4.0	1536.0	-	1
Co-Bagging (C45)	12.0	1528.0	-	1
Co-Bagging (NB)	132.0	1408.0	-	1
Co-Bagging (SMO)	6.0	1534.0	-	1
Rel-Rasco (C45)	233.0	1307.0	-	1
Rel-Rasco (NB)	358.0	1182.0	-	1
Rel-Rasco (SMO)	388.0	1152.0	-	1
CLCC	396.0	1144.0	-	1
APSSC	295.0	1245.0	-	1
SNNRCE	8.0	1532.0	-	1
ADE-CoForest	151.0	1389.0	-	1

Table 82: Results obtained by the Wilcoxon test for algorithm Rel-Rasco (NN)

### 28.2 Confidence intervals for Median of differences

$\alpha=0.90$	Confidence interval	Exact confidence
Self-Training (NN)	[-0.13885 , -0.06735]	2
Self-Training (C45)	[-0.15095 , -0.0982]	2
Self-Training (NB)	[-0.1053 , -0.04465]	2
Self-Training (SMO)	[-0.1314 , -0.0764]	2
Co-Training (NN)	[-0.1248 , -0.05975]	2
Co-Training (C45)	[-0.1455 , -0.09675]	2
Co-Training (NB)	[-0.1259 , -0.06195]	2
Co-Training (SMO)	[-0.1453 , -0.0848]	2
Democratic-Co	[-0.1517 , -0.0962]	2
SETRED	[-0.139 , -0.07075]	2
TriTraining (NN)	[-0.1357 , -0.06635]	2
TriTraining (C45)	[-0.15895 , -0.10455]	2
TriTraining (NB)	[-0.12575 , -0.06705]	2
TriTraining (SMO)	[-0.12675 , -0.0772]	2
DE-TriTraining (NN)	[-0.1264 , -0.07365]	2
DE-TriTraining (C45)	[-0.12795 , -0.08275]	2
DE-TriTraining (NB)	[-0.10985 , -0.065]	2
DE-TriTraining (SMO)	[-0.1264 , -0.07885]	2
CoForest	[-0.15255 , -0.08945]	2
Rasco (NN)	[-0.00035 , 0.00425]	2
Rasco (C45)	[-0.05005 , -0.02385]	2
Rasco (NB)	[-0.0741 , -0.03185]	2
Rasco (SMO)	[-0.0384 , -0.01505]	2
Co-Bagging (NN)	[-0.13525 , -0.07895]	2
Co-Bagging (C45)	[-0.15675 , -0.104]	2
Co-Bagging (NB)	[-0.1259 , -0.06655]	2
Co-Bagging (SMO)	[-0.1301 , -0.0785]	2
Rel-Rasco (C45)	[-0.0553 , -0.02635]	2
Rel-Rasco (NB)	[-0.0716 , -0.0267]	2
Rel-Rasco (SMO)	[-0.03735 , -0.014]	2
CLCC	[-0.07375 , -0.0258]	2
APSSC	[-0.1128 , -0.0509]	2
SNNRCE	[-0.14585 , -0.0772]	2
ADE-CoForest	[-0.11635 , -0.06665]	2

Table 83: Confidence intervals for algorithm Rel-Rasco (NN) ( $\alpha=0.90$ )

$\alpha=0.95$	Confidence interval	Exact confidence
Self-Training (NN)	[-0.1503 , -0.06305]	2
Self-Training (C45)	[-0.15445 , -0.0925]	2
Self-Training (NB)	[-0.11295 , -0.0401]	2
Self-Training (SMO)	[-0.13695 , -0.0721]	2
Co-Training (NN)	[-0.13255 , -0.0561]	2
Co-Training (C45)	[-0.152 , -0.0919]	2
Co-Training (NB)	[-0.13375 , -0.05745]	2
Co-Training (SMO)	[-0.1516 , -0.08115]	2
Democratic-Co	[-0.159 , -0.0917]	2
SETRED	[-0.15165 , -0.0663]	2
TriTraining (NN)	[-0.148 , -0.0634]	2
TriTraining (C45)	[-0.16495 , -0.09865]	2
TriTraining (NB)	[-0.1341 , -0.0618]	2
TriTraining (SMO)	[-0.1353 , -0.07255]	2
DE-TriTraining (NN)	[-0.1322 , -0.0684]	2
DE-TriTraining (C45)	[-0.13335 , -0.07905]	2
DE-TriTraining (NB)	[-0.11505 , -0.0608]	2
DE-TriTraining (SMO)	[-0.13205 , -0.07535]	2
CoForest	[-0.1605 , -0.0838]	2
Rasco (NN)	[-0.00085 , 0.0048]	2
Rasco (C45)	[-0.0537 , -0.02095]	2
Rasco (NB)	[-0.0791 , -0.02655]	2
Rasco (SMO)	[-0.0415 , -0.01235]	2
Co-Bagging (NN)	[-0.14435 , -0.0741]	2
Co-Bagging (C45)	[-0.16105 , -0.09905]	2
Co-Bagging (NB)	[-0.13285 , -0.06135]	2
Co-Bagging (SMO)	[-0.13665 , -0.0757]	2
Rel-Rasco (C45)	[-0.05855 , -0.02415]	2
Rel-Rasco (NB)	[-0.079 , -0.02255]	2
Rel-Rasco (SMO)	[-0.03965 , -0.01135]	2
CLCC	[-0.07865 , -0.0204]	2
APSSC	[-0.12175 , -0.045]	2
SNNRCE	[-0.1565 , -0.07245]	2
ADE-CoForest	[-0.1222 , -0.0625]	2

Table 84: Confidence intervals for algorithm Rel-Rasco (NN) ( $\alpha=0.95$ )

## 29 Detailed results for Rel-Rasco (C45)

### 29.1 Results

VS	$R^+$	$R^-$	Exact P-value	Asymptotic P-value
Self-Training (NN)	366.0	1174.0	-	1
Self-Training (C45)	22.0	1518.0	-	1
Self-Training (NB)	525.0	1015.0	-	1
Self-Training (SMO)	316.0	1224.0	-	1
Co-Training (NN)	416.0	1124.0	-	1
Co-Training (C45)	15.0	1525.0	-	1
Co-Training (NB)	431.0	1109.0	-	1
Co-Training (SMO)	190.0	1350.0	-	1
Democratic-Co	63.0	1477.0	-	1
SETRED	335.0	1205.0	-	1
TriTraining (NN)	352.0	1188.0	-	1
TriTraining (C45)	22.0	1518.0	-	1
TriTraining (NB)	378.0	1162.0	-	1
TriTraining (SMO)	241.0	1299.0	-	1
DE-TriTraining (NN)	311.0	1229.0	-	1
DE-TriTraining (C45)	164.0	1376.0	-	1
DE-TriTraining (NB)	373.0	1167.0	-	1
DE-TriTraining (SMO)	235.0	1305.0	-	1
CoForest	298.0	1242.0	-	1
Rasco (NN)	1316.0	224.0	-	0.000005
Rasco (C45)	849.0	636.0	-	0.354822
Rasco (NB)	628.0	912.0	-	1
Rasco (SMO)	940.0	600.0	-	0.153136
Co-Bagging (NN)	282.0	1258.0	-	1
Co-Bagging (C45)	24.0	1516.0	-	1
Co-Bagging (NB)	366.0	1174.0	-	1
Co-Bagging (SMO)	223.0	1317.0	-	1
Rel-Rasco (NN)	1307.0	233.0	-	0.000007
Rel-Rasco (NB)	666.5	873.5	-	1
Rel-Rasco (SMO)	963.0	577.0	-	0.104964
CLCC	699.0	841.0	-	1
APSSC	545.5	994.5	-	1
SNNRCE	289.5	1250.5	-	1
ADE-CoForest	429.0	1111.0	-	1

Table 85: Results obtained by the Wilcoxon test for algorithm Rel-Rasco (C45)

### 29.2 Confidence intervals for Median of differences

$\alpha=0.90$	Confidence interval	Exact confidence
Self-Training (NN)	[-0.1039 , -0.0343]	2
Self-Training (C45)	[-0.10135 , -0.0454]	2
Self-Training (NB)	[-0.06375 , -0.00715]	2
Self-Training (SMO)	[-0.0891 , -0.0361]	2
Co-Training (NN)	[-0.0904 , -0.02595]	2
Co-Training (C45)	[-0.1022 , -0.04795]	2
Co-Training (NB)	[-0.08175 , -0.02045]	2
Co-Training (SMO)	[-0.09945 , -0.0474]	2
Democratic-Co	[-0.10415 , -0.0561]	2
SETRED	[-0.1058 , -0.0368]	2
TriTraining (NN)	[-0.1023 , -0.0336]	2
TriTraining (C45)	[-0.11215 , -0.05335]	2
TriTraining (NB)	[-0.08205 , -0.02635]	2
TriTraining (SMO)	[-0.0932 , -0.03755]	2
DE-TriTraining (NN)	[-0.09365 , -0.03735]	2
DE-TriTraining (C45)	[-0.08835 , -0.0379]	2
DE-TriTraining (NB)	[-0.0677 , -0.0199]	2
DE-TriTraining (SMO)	[-0.0978 , -0.0423]	2
CoForest	[-0.10495 , -0.04745]	2
Rasco (NN)	[0.0274 , 0.0547]	2
Rasco (C45)	[-0.0012 , 0.0048]	2
Rasco (NB)	[-0.03465 , 0.00735]	2
Rasco (SMO)	[-0.0017 , 0.02745]	2
Co-Bagging (NN)	[-0.0995 , -0.0405]	2
Co-Bagging (C45)	[-0.10725 , -0.05745]	2
Co-Bagging (NB)	[-0.07975 , -0.02595]	2
Co-Bagging (SMO)	[-0.09525 , -0.0392]	2
Rel-Rasco (NN)	[0.02635 , 0.0553]	2
Rel-Rasco (NB)	[-0.03305 , 0.00985]	2
Rel-Rasco (SMO)	[-0.0003 , 0.03055]	2
CLCC	[-0.03625 , 0.01725]	2
APSSC	[-0.0689 , -0.00515]	2
SNNRCE	[-0.109 , -0.0415]	2
ADE-CoForest	[-0.08355 , -0.0231]	2

Table 86: Confidence intervals for algorithm Rel-Rasco (C45) ( $\alpha=0.90$ )

$\alpha=0.95$	Confidence interval	Exact confidence
Self-Training (NN)	[-0.11255 , -0.0275]	2
Self-Training (C45)	[-0.1072 , -0.042]	2
Self-Training (NB)	[-0.07195 , -0.0017]	2
Self-Training (SMO)	[-0.0948 , -0.03075]	2
Co-Training (NN)	[-0.09845 , -0.01945]	2
Co-Training (C45)	[-0.10735 , -0.0456]	2
Co-Training (NB)	[-0.08985 , -0.01545]	2
Co-Training (SMO)	[-0.1062 , -0.04395]	2
Democratic-Co	[-0.1112 , -0.0521]	2
SETRED	[-0.1149 , -0.0309]	2
TriTraining (NN)	[-0.1097 , -0.02735]	2
TriTraining (C45)	[-0.12 , -0.0498]	2
TriTraining (NB)	[-0.0874 , -0.022]	2
TriTraining (SMO)	[-0.09835 , -0.0344]	2
DE-TriTraining (NN)	[-0.10015 , -0.03285]	2
DE-TriTraining (C45)	[-0.0936 , -0.03315]	2
DE-TriTraining (NB)	[-0.074 , -0.01695]	2
DE-TriTraining (SMO)	[-0.10125 , -0.0371]	2
CoForest	[-0.11315 , -0.04235]	2
Rasco (NN)	[0.02505 , 0.0587]	2
Rasco (C45)	[-0.0018 , 0.00545]	2
Rasco (NB)	[-0.0401 , 0.0111]	2
Rasco (SMO)	[-0.00445 , 0.0306]	2
Co-Bagging (NN)	[-0.10615 , -0.0338]	2
Co-Bagging (C45)	[-0.11305 , -0.0535]	2
Co-Bagging (NB)	[-0.0858 , -0.02135]	2
Co-Bagging (SMO)	[-0.0999 , -0.035]	2
Rel-Rasco (NN)	[0.02415 , 0.05855]	2
Rel-Rasco (NB)	[-0.03765 , 0.01345]	2
Rel-Rasco (SMO)	[-0.0028 , 0.0334]	2
CLCC	[-0.041 , 0.02355]	2
APSSC	[-0.0748 , 0.001]	2
SNNRCE	[-0.11885 , -0.03605]	2
ADE-CoForest	[-0.0912 , -0.01625]	2

Table 87: Confidence intervals for algorithm Rel-Rasco (C45) ( $\alpha=0.95$ )



## 30 Detailed results for Rel-Rasco (NB)

### 30.1 Results

VS	$R^+$	$R^-$	Exact P-value	Asymptotic P-value
Self-Training (NN)	382.5	1157.5	-	1
Self-Training (C45)	198.0	1342.0	-	1
Self-Training (NB)	439.5	1100.5	-	1
Self-Training (SMO)	391.0	1149.0	-	1
Co-Training (NN)	453.0	1087.0	-	1
Co-Training (C45)	206.0	1334.0	-	1
Co-Training (NB)	130.0	1410.0	-	1
Co-Training (SMO)	291.0	1249.0	-	1
Democratic-Co	54.0	1486.0	-	1
SETRED	356.0	1184.0	-	1
TriTraining (NN)	372.0	1168.0	-	1
TriTraining (C45)	158.0	1382.0	-	1
TriTraining (NB)	54.0	1486.0	-	1
TriTraining (SMO)	345.0	1195.0	-	1
DE-TriTraining (NN)	346.5	1193.5	-	1
DE-TriTraining (C45)	246.0	1294.0	-	1
DE-TriTraining (NB)	192.0	1348.0	-	1
DE-TriTraining (SMO)	316.0	1224.0	-	1
CoForest	339.0	1201.0	-	1
Rasco (NN)	1196.0	344.0	-	0.000352
Rasco (C45)	895.0	645.0	-	0.293025
Rasco (NB)	815.0	670.0	-	0.528759
Rasco (SMO)	973.0	567.0	-	0.088188
Co-Bagging (NN)	304.0	1236.0	-	1
Co-Bagging (C45)	154.0	1386.0	-	1
Co-Bagging (NB)	107.0	1433.0	-	1
Co-Bagging (SMO)	315.0	1225.0	-	1
Rel-Rasco (NN)	1182.0	358.0	-	0.000548
Rel-Rasco (C45)	873.5	666.5	-	0.381054
Rel-Rasco (SMO)	989.0	551.0	-	0.065902
CLCC	685.0	855.0	-	1
APSSC	530.0	955.0	-	1
SNNRCE	306.0	1234.0	-	1
ADE-CoForest	389.0	1151.0	-	1

Table 88: Results obtained by the Wilcoxon test for algorithm Rel-Rasco (NB)

### 30.2 Confidence intervals for Median of differences

$\alpha=0.90$	Confidence interval	Exact confidence
Self-Training (NN)	[-0.09155 , -0.027]	2
Self-Training (C45)	[-0.09465 , -0.0458]	2
Self-Training (NB)	[-0.0316 , -0.00535]	2
Self-Training (SMO)	[-0.08395 , -0.0295]	2
Co-Training (NN)	[-0.07795 , -0.0187]	2
Co-Training (C45)	[-0.09335 , -0.0455]	2
Co-Training (NB)	[-0.05475 , -0.0198]	2
Co-Training (SMO)	[-0.08735 , -0.0366]	2
Democratic-Co	[-0.0951 , -0.0561]	2
SETRED	[-0.0936 , -0.03175]	2
TriTraining (NN)	[-0.0895 , -0.02755]	2
TriTraining (C45)	[-0.1036 , -0.05245]	2
TriTraining (NB)	[-0.05885 , -0.0258]	2
TriTraining (SMO)	[-0.0817 , -0.0322]	2
DE-TriTraining (NN)	[-0.0812 , -0.03065]	2
DE-TriTraining (C45)	[-0.08245 , -0.03715]	2
DE-TriTraining (NB)	[-0.0466 , -0.0172]	2
DE-TriTraining (SMO)	[-0.0827 , -0.03295]	2
CoForest	[-0.10225 , -0.0412]	2
Rasco (NN)	[0.0282 , 0.0744]	2
Rasco (C45)	[-0.0073 , 0.03505]	2
Rasco (NB)	[-0.0019 , 0.0044]	2
Rasco (SMO)	[0.0013 , 0.0519]	2
Co-Bagging (NN)	[-0.0907 , -0.0355]	2
Co-Bagging (C45)	[-0.1009 , -0.0542]	2
Co-Bagging (NB)	[-0.0529 , -0.0189]	2
Co-Bagging (SMO)	[-0.08435 , -0.0349]	2
Rel-Rasco (NN)	[0.0267 , 0.0716]	2
Rel-Rasco (C45)	[-0.00985 , 0.03305]	2
Rel-Rasco (SMO)	[0.00145 , 0.05485]	2
CLCC	[-0.02795 , 0.0092]	2
APSSC	[-0.05915 , -0.0048]	2
SNNRCE	[-0.09695 , -0.03785]	2
ADE-CoForest	[-0.07305 , -0.0213]	2

Table 89: Confidence intervals for algorithm Rel-Rasco (NB) ( $\alpha=0.90$ )

$\alpha=0.95$	Confidence interval	Exact confidence
Self-Training (NN)	[-0.09805 , -0.02275]	2
Self-Training (C45)	[-0.10115 , -0.04225]	2
Self-Training (NB)	[-0.03555 , -0.00345]	2
Self-Training (SMO)	[-0.09045 , -0.02415]	2
Co-Training (NN)	[-0.08595 , -0.01235]	2
Co-Training (C45)	[-0.0983 , -0.0413]	2
Co-Training (NB)	[-0.0627 , -0.0179]	2
Co-Training (SMO)	[-0.09235 , -0.03375]	2
Democratic-Co	[-0.10105 , -0.0534]	2
SETRED	[-0.1008 , -0.0269]	2
TriTraining (NN)	[-0.09695 , -0.0233]	2
TriTraining (C45)	[-0.1092 , -0.0484]	2
TriTraining (NB)	[-0.0651 , -0.0237]	2
TriTraining (SMO)	[-0.08605 , -0.0262]	2
DE-TriTraining (NN)	[-0.08625 , -0.0256]	2
DE-TriTraining (C45)	[-0.0863 , -0.03355]	2
DE-TriTraining (NB)	[-0.051 , -0.01595]	2
DE-TriTraining (SMO)	[-0.08815 , -0.02865]	2
CoForest	[-0.10775 , -0.0356]	2
Rasco (NN)	[0.0253 , 0.08035]	2
Rasco (C45)	[-0.0128 , 0.04]	2
Rasco (NB)	[-0.0024 , 0.00505]	2
Rasco (SMO)	[-0.00455 , 0.059]	2
Co-Bagging (NN)	[-0.0969 , -0.03275]	2
Co-Bagging (C45)	[-0.106 , -0.04915]	2
Co-Bagging (NB)	[-0.05675 , -0.0166]	2
Co-Bagging (SMO)	[-0.0889 , -0.0291]	2
Rel-Rasco (NN)	[0.02255 , 0.079]	2
Rel-Rasco (C45)	[-0.01345 , 0.03765]	2
Rel-Rasco (SMO)	[-0.00145 , 0.0603]	2
CLCC	[-0.03185 , 0.01295]	2
APSSC	[-0.0665 , 0.0021]	2
SNNRCE	[-0.1035 , -0.0345]	2
ADE-CoForest	[-0.07965 , -0.0169]	2

Table 90: Confidence intervals for algorithm Rel-Rasco (NB) ( $\alpha=0.95$ )

## 31 Detailed results for Rel-Rasco (SMO)

### 31.1 Results

VS	$R^+$	$R^-$	Exact P-value	Asymptotic P-value
Self-Training (NN)	266.0	1274.0	-	1
Self-Training (C45)	130.0	1410.0	-	1
Self-Training (NB)	435.0	1105.0	-	1
Self-Training (SMO)	153.0	1387.0	-	1
Co-Training (NN)	369.0	1171.0	-	1
Co-Training (C45)	133.0	1407.0	-	1
Co-Training (NB)	339.0	1201.0	-	1
Co-Training (SMO)	79.0	1461.0	-	1
Democratic-Co	100.0	1440.0	-	1
SETRED	244.0	1296.0	-	1
TriTraining (NN)	258.0	1282.0	-	1
TriTraining (C45)	111.0	1429.0	-	1
TriTraining (NB)	316.0	1224.0	-	1
TriTraining (SMO)	75.0	1465.0	-	1
DE-TriTraining (NN)	253.0	1287.0	-	1
DE-TriTraining (C45)	175.0	1365.0	-	1
DE-TriTraining (NB)	331.0	1209.0	-	1
DE-TriTraining (SMO)	120.5	1364.5	-	1
CoForest	255.0	1285.0	-	1
Rasco (NN)	1177.0	363.0	-	0.00064
Rasco (C45)	613.0	927.0	-	1
Rasco (NB)	550.5	989.5	-	1
Rasco (SMO)	640.5	899.5	-	1
Co-Bagging (NN)	214.0	1326.0	-	1
Co-Bagging (C45)	79.0	1461.0	-	1
Co-Bagging (NB)	296.0	1244.0	-	1
Co-Bagging (SMO)	51.0	1489.0	-	1
Rel-Rasco (NN)	1152.0	388.0	-	0.001352
Rel-Rasco (C45)	577.0	963.0	-	1
Rel-Rasco (NB)	551.0	989.0	-	1
CLCC	585.0	955.0	-	1
APSSC	463.5	1076.5	-	1
SNNRCE	195.0	1345.0	-	1
ADE-CoForest	333.0	1207.0	-	1

Table 91: Results obtained by the Wilcoxon test for algorithm Rel-Rasco (SMO)

### 31.2 Confidence intervals for Median of differences

$\alpha=0.90$	Confidence interval	Exact confidence
Self-Training (NN)	[-0.13845 , -0.04385]	2
Self-Training (C45)	[-0.1344 , -0.0649]	2
Self-Training (NB)	[-0.0894 , -0.02085]	2
Self-Training (SMO)	[-0.1151 , -0.04935]	2
Co-Training (NN)	[-0.1206 , -0.0363]	2
Co-Training (C45)	[-0.13175 , -0.0696]	2
Co-Training (NB)	[-0.10925 , -0.03715]	2
Co-Training (SMO)	[-0.12235 , -0.06305]	2
Democratic-Co	[-0.1369 , -0.07105]	2
SETRED	[-0.13915 , -0.0462]	2
TriTraining (NN)	[-0.1323 , -0.04165]	2
TriTraining (C45)	[-0.14425 , -0.07315]	2
TriTraining (NB)	[-0.11275 , -0.03995]	2
TriTraining (SMO)	[-0.10605 , -0.0513]	2
DE-TriTraining (NN)	[-0.12395 , -0.04975]	2
DE-TriTraining (C45)	[-0.11725 , -0.0548]	2
DE-TriTraining (NB)	[-0.09605 , -0.03485]	2
DE-TriTraining (SMO)	[-0.12025 , -0.05835]	2
CoForest	[-0.13915 , -0.0581]	2
Rasco (NN)	[0.01515 , 0.03735]	2
Rasco (C45)	[-0.0261 , 0.0023]	2
Rasco (NB)	[-0.05845 , -0.0033]	2
Rasco (SMO)	[-0.00485 , 0.0008]	2
Co-Bagging (NN)	[-0.1357 , -0.04975]	2
Co-Bagging (C45)	[-0.14065 , -0.07415]	2
Co-Bagging (NB)	[-0.1091 , -0.0423]	2
Co-Bagging (SMO)	[-0.1148 , -0.051]	2
Rel-Rasco (NN)	[0.014 , 0.03735]	2
Rel-Rasco (C45)	[-0.03055 , 0.0003]	2
Rel-Rasco (NB)	[-0.05485 , -0.00145]	2
CLCC	[-0.06215 , 0.00205]	2
APSSC	[-0.1019 , -0.0198]	2
SNNRCE	[-0.14435 , -0.0519]	2
ADE-CoForest	[-0.1112 , -0.04055]	2

Table 92: Confidence intervals for algorithm Rel-Rasco (SMO) ( $\alpha=0.90$ )

$\alpha=0.95$	Confidence interval	Exact confidence
Self-Training (NN)	[-0.14825 , -0.03905]	2
Self-Training (C45)	[-0.1419 , -0.05995]	2
Self-Training (NB)	[-0.0972 , -0.01505]	2
Self-Training (SMO)	[-0.1198 , -0.0457]	2
Co-Training (NN)	[-0.1296 , -0.0294]	2
Co-Training (C45)	[-0.1398 , -0.06295]	2
Co-Training (NB)	[-0.11825 , -0.0293]	2
Co-Training (SMO)	[-0.1294 , -0.05905]	2
Democratic-Co	[-0.14515 , -0.06495]	2
SETRED	[-0.1487 , -0.0407]	2
TriTraining (NN)	[-0.1425 , -0.03575]	2
TriTraining (C45)	[-0.1501 , -0.0675]	2
TriTraining (NB)	[-0.12055 , -0.0354]	2
TriTraining (SMO)	[-0.11305 , -0.04695]	2
DE-TriTraining (NN)	[-0.13145 , -0.04315]	2
DE-TriTraining (C45)	[-0.1262 , -0.04995]	2
DE-TriTraining (NB)	[-0.10425 , -0.0308]	2
DE-TriTraining (SMO)	[-0.1249 , -0.0516]	2
CoForest	[-0.1474 , -0.0538]	2
Rasco (NN)	[0.01265 , 0.0394]	2
Rasco (C45)	[-0.0291 , 0.00505]	2
Rasco (NB)	[-0.06375 , 0.00165]	2
Rasco (SMO)	[-0.006 , 0.0015]	2
Co-Bagging (NN)	[-0.1444 , -0.0431]	2
Co-Bagging (C45)	[-0.1459 , -0.06925]	2
Co-Bagging (NB)	[-0.11695 , -0.0365]	2
Co-Bagging (SMO)	[-0.12405 , -0.04675]	2
Rel-Rasco (NN)	[0.01135 , 0.03965]	2
Rel-Rasco (C45)	[-0.0334 , 0.0028]	2
Rel-Rasco (NB)	[-0.0603 , 0.00145]	2
CLCC	[-0.0705 , 0.00785]	2
APSSC	[-0.1098 , -0.01305]	2
SNNRCE	[-0.1523 , -0.04665]	2
ADE-CoForest	[-0.1202 , -0.03415]	2

Table 93: Confidence intervals for algorithm Rel-Rasco (SMO) ( $\alpha=0.95$ )

## 32 Detailed results for CLCC

### 32.1 Results

VS	$R^+$	$R^-$	Exact P-value	Asymptotic P-value
Self-Training (NN)	380.0	1160.0	-	1
Self-Training (C45)	270.0	1270.0	-	1
Self-Training (NB)	629.0	911.0	-	1
Self-Training (SMO)	399.0	1141.0	-	1
Co-Training (NN)	480.5	1059.5	-	1
Co-Training (C45)	279.5	1260.5	-	1
Co-Training (NB)	430.5	1109.5	-	1
Co-Training (SMO)	375.0	1165.0	-	1
Democratic-Co	113.0	1427.0	-	1
SETRED	348.5	1191.5	-	1
TriTraining (NN)	366.0	1174.0	-	1
TriTraining (C45)	220.0	1320.0	-	1
TriTraining (NB)	422.0	1118.0	-	1
TriTraining (SMO)	443.0	1097.0	-	1
DE-TriTraining (NN)	344.0	1196.0	-	1
DE-TriTraining (C45)	277.0	1263.0	-	1
DE-TriTraining (NB)	405.0	1135.0	-	1
DE-TriTraining (SMO)	316.5	1223.5	-	1
CoForest	266.0	1274.0	-	1
Rasco (NN)	1158.0	382.0	-	0.001134
Rasco (C45)	849.5	690.5	-	0.501781
Rasco (NB)	846.0	694.0	-	0.521113
Rasco (SMO)	946.0	594.0	-	0.13919
Co-Bagging (NN)	257.0	1283.0	-	1
Co-Bagging (C45)	230.0	1310.0	-	1
Co-Bagging (NB)	418.0	1122.0	-	1
Co-Bagging (SMO)	417.0	1123.0	-	1
Rel-Rasco (NN)	1144.0	396.0	-	0.001702
Rel-Rasco (C45)	841.0	699.0	-	0.549129
Rel-Rasco (NB)	855.0	685.0	-	0.473765
Rel-Rasco (SMO)	955.0	585.0	-	0.120132
APSSC	528.0	1012.0	-	1
SNNRCE	307.0	1233.0	-	1
ADE-CoForest	303.0	1237.0	-	1

Table 94: Results obtained by the Wilcoxon test for algorithm CLCC

### 32.2 Confidence intervals for Median of differences

$\alpha=0.90$	Confidence interval	Exact confidence
Self-Training (NN)	[-0.0834 , -0.02305]	2
Self-Training (C45)	[-0.08535 , -0.03315]	2
Self-Training (NB)	[-0.02685 , 0.0044]	2
Self-Training (SMO)	[-0.07345 , -0.0244]	2
Co-Training (NN)	[-0.06895 , -0.01045]	2
Co-Training (C45)	[-0.0843 , -0.03275]	2
Co-Training (NB)	[-0.0423 , -0.01065]	2
Co-Training (SMO)	[-0.08875 , -0.02265]	2
Democratic-Co	[-0.0834 , -0.03735]	2
SETRED	[-0.0838 , -0.02785]	2
TriTraining (NN)	[-0.08 , -0.0236]	2
TriTraining (C45)	[-0.0942 , -0.0399]	2
TriTraining (NB)	[-0.0438 , -0.01275]	2
TriTraining (SMO)	[-0.0793 , -0.01625]	2
DE-TriTraining (NN)	[-0.06755 , -0.02065]	2
DE-TriTraining (C45)	[-0.06555 , -0.0246]	2
DE-TriTraining (NB)	[-0.03005 , -0.00985]	2
DE-TriTraining (SMO)	[-0.07235 , -0.022]	2
CoForest	[-0.0774 , -0.0283]	2
Rasco (NN)	[0.02795 , 0.07605]	2
Rasco (C45)	[-0.01835 , 0.0391]	2
Rasco (NB)	[-0.01215 , 0.0261]	2
Rasco (SMO)	[-0.0035 , 0.05895]	2
Co-Bagging (NN)	[-0.0809 , -0.0242]	2
Co-Bagging (C45)	[-0.09115 , -0.0388]	2
Co-Bagging (NB)	[-0.041 , -0.01135]	2
Co-Bagging (SMO)	[-0.08455 , -0.01865]	2
Rel-Rasco (NN)	[0.0258 , 0.07375]	2
Rel-Rasco (C45)	[-0.01725 , 0.03625]	2
Rel-Rasco (NB)	[-0.0092 , 0.02795]	2
Rel-Rasco (SMO)	[-0.00205 , 0.06215]	2
APSSC	[-0.05545 , -0.0049]	2
SNNRCE	[-0.0897 , -0.0274]	2
ADE-CoForest	[-0.04275 , -0.0158]	2

Table 95: Confidence intervals for algorithm CLCC ( $\alpha=0.90$ )



$\alpha=0.95$	Confidence interval	Exact confidence
Self-Training (NN)	[-0.0907 , -0.01825]	2
Self-Training (C45)	[-0.09565 , -0.0292]	2
Self-Training (NB)	[-0.0329 , 0.00655]	2
Self-Training (SMO)	[-0.0794 , -0.0185]	2
Co-Training (NN)	[-0.0758 , -0.0067]	2
Co-Training (C45)	[-0.0923 , -0.029]	2
Co-Training (NB)	[-0.04565 , -0.00825]	2
Co-Training (SMO)	[-0.0984 , -0.01895]	2
Democratic-Co	[-0.09395 , -0.0335]	2
SETRED	[-0.09105 , -0.0221]	2
TriTraining (NN)	[-0.0871 , -0.0195]	2
TriTraining (C45)	[-0.1023 , -0.0357]	2
TriTraining (NB)	[-0.0496 , -0.00965]	2
TriTraining (SMO)	[-0.08665 , -0.01265]	2
DE-TriTraining (NN)	[-0.0732 , -0.01705]	2
DE-TriTraining (C45)	[-0.0729 , -0.02145]	2
DE-TriTraining (NB)	[-0.03325 , -0.00745]	2
DE-TriTraining (SMO)	[-0.0809 , -0.01805]	2
CoForest	[-0.085 , -0.0246]	2
Rasco (NN)	[0.0235 , 0.07945]	2
Rasco (C45)	[-0.02335 , 0.04565]	2
Rasco (NB)	[-0.015 , 0.0305]	2
Rasco (SMO)	[-0.01025 , 0.06505]	2
Co-Bagging (NN)	[-0.0901 , -0.0217]	2
Co-Bagging (C45)	[-0.10045 , -0.03495]	2
Co-Bagging (NB)	[-0.04535 , -0.0084]	2
Co-Bagging (SMO)	[-0.09245 , -0.0143]	2
Rel-Rasco (NN)	[0.0204 , 0.07865]	2
Rel-Rasco (C45)	[-0.02355 , 0.041]	2
Rel-Rasco (NB)	[-0.01295 , 0.03185]	2
Rel-Rasco (SMO)	[-0.00785 , 0.0705]	2
APSSC	[-0.0608 , -0.0012]	2
SNNRCE	[-0.09775 , -0.02355]	2
ADE-CoForest	[-0.04535 , -0.0139]	2

Table 96: Confidence intervals for algorithm CLCC ( $\alpha=0.95$ )

## 33 Detailed results for APSSC

### 33.1 Results

VS	$R^+$	$R^-$	Exact P-value	Asymptotic P-value
Self-Training (NN)	438.0	1102.0	-	1
Self-Training (C45)	436.5	1103.5	-	1
Self-Training (NB)	831.0	709.0	-	0.606357
Self-Training (SMO)	570.0	970.0	-	1
Co-Training (NN)	591.5	948.5	-	1
Co-Training (C45)	457.5	1082.5	-	1
Co-Training (NB)	732.0	808.0	-	1
Co-Training (SMO)	436.0	1104.0	-	1
Democratic-Co	328.0	1212.0	-	1
SETRED	389.5	1150.5	-	1
TriTraining (NN)	434.0	1106.0	-	1
TriTraining (C45)	379.5	1160.5	-	1
TriTraining (NB)	711.0	829.0	-	1
TriTraining (SMO)	503.0	982.0	-	1
DE-TriTraining (NN)	544.5	995.5	-	1
DE-TriTraining (C45)	495.0	1045.0	-	1
DE-TriTraining (NB)	775.0	765.0	-	0.963245
DE-TriTraining (SMO)	456.5	1083.5	-	1
CoForest	522.5	1017.5	-	1
Rasco (NN)	1257.0	283.0	-	0.000043
Rasco (C45)	990.0	550.0	-	0.064679
Rasco (NB)	993.0	547.0	-	0.061123
Rasco (SMO)	1064.5	475.5	-	0.013351
Co-Bagging (NN)	438.5	1101.5	-	1
Co-Bagging (C45)	398.5	1141.5	-	1
Co-Bagging (NB)	717.0	768.0	-	1
Co-Bagging (SMO)	470.5	1069.5	-	1
Rel-Rasco (NN)	1245.0	295.0	-	0.000068
Rel-Rasco (C45)	994.5	545.5	-	0.05914
Rel-Rasco (NB)	955.0	530.0	-	0.066365
Rel-Rasco (SMO)	1076.5	463.5	-	0.010027
CLCC	1012.0	528.0	-	0.042174
SNNRCE	342.5	1197.5	-	1
ADE-CoForest	662.0	878.0	-	1

Table 97: Results obtained by the Wilcoxon test for algorithm APSSC

### 33.2 Confidence intervals for Median of differences

$\alpha=0.90$	Confidence interval	Exact confidence
Self-Training (NN)	[-0.04345 , -0.0123]	2
Self-Training (C45)	[-0.05795 , -0.0154]	2
Self-Training (NB)	[-0.0143 , 0.027]	2
Self-Training (SMO)	[-0.04465 , -0.00055]	2
Co-Training (NN)	[-0.0361 , 0.00145]	2
Co-Training (C45)	[-0.05725 , -0.0137]	2
Co-Training (NB)	[-0.0261 , 0.01445]	2
Co-Training (SMO)	[-0.05765 , -0.01725]	2
Democratic-Co	[-0.06005 , -0.0223]	2
SETRED	[-0.04795 , -0.0164]	2
TriTraining (NN)	[-0.04445 , -0.01185]	2
TriTraining (C45)	[-0.0641 , -0.02115]	2
TriTraining (NB)	[-0.0289 , 0.0121]	2
TriTraining (SMO)	[-0.0492 , -0.0072]	2
DE-TriTraining (NN)	[-0.03805 , -0.00275]	2
DE-TriTraining (C45)	[-0.0469 , -0.0082]	2
DE-TriTraining (NB)	[-0.02375 , 0.02085]	2
DE-TriTraining (SMO)	[-0.0517 , -0.01055]	2
CoForest	[-0.05125 , -0.0059]	2
Rasco (NN)	[0.05135 , 0.1127]	2
Rasco (C45)	[0.0042 , 0.07005]	2
Rasco (NB)	[0.0032 , 0.06535]	2
Rasco (SMO)	[0.01815 , 0.09325]	2
Co-Bagging (NN)	[-0.044 , -0.0104]	2
Co-Bagging (C45)	[-0.06275 , -0.01995]	2
Co-Bagging (NB)	[-0.02665 , 0.01565]	2
Co-Bagging (SMO)	[-0.0573 , -0.0118]	2
Rel-Rasco (NN)	[0.0509 , 0.1128]	2
Rel-Rasco (C45)	[0.00515 , 0.0689]	2
Rel-Rasco (NB)	[0.0048 , 0.05915]	2
Rel-Rasco (SMO)	[0.0198 , 0.1019]	2
CLCC	[0.0049 , 0.05545]	2
SNNRCE	[-0.0508 , -0.01975]	2
ADE-CoForest	[-0.03215 , 0.00975]	2

Table 98: Confidence intervals for algorithm APSSC ( $\alpha=0.90$ )

$\alpha=0.95$	Confidence interval	Exact confidence
Self-Training (NN)	[-0.0466 , -0.0089]	2
Self-Training (C45)	[-0.06335 , -0.0109]	2
Self-Training (NB)	[-0.01965 , 0.0312]	2
Self-Training (SMO)	[-0.0482 , 0.0036]	2
Co-Training (NN)	[-0.0403 , 0.00445]	2
Co-Training (C45)	[-0.06205 , -0.00975]	2
Co-Training (NB)	[-0.0311 , 0.0171]	2
Co-Training (SMO)	[-0.0616 , -0.01185]	2
Democratic-Co	[-0.063 , -0.0195]	2
SETRED	[-0.0516 , -0.0131]	2
TriTraining (NN)	[-0.0484 , -0.0076]	2
TriTraining (C45)	[-0.0681 , -0.01795]	2
TriTraining (NB)	[-0.03535 , 0.01595]	2
TriTraining (SMO)	[-0.05225 , -0.0016]	2
DE-TriTraining (NN)	[-0.0414 , 0.00045]	2
DE-TriTraining (C45)	[-0.0507 , -0.0049]	2
DE-TriTraining (NB)	[-0.0302 , 0.0249]	2
DE-TriTraining (SMO)	[-0.0547 , -0.00685]	2
CoForest	[-0.05585 , -0.0012]	2
Rasco (NN)	[0.04605 , 0.11985]	2
Rasco (C45)	[-0.0021 , 0.08095]	2
Rasco (NB)	[-0.0016 , 0.0715]	2
Rasco (SMO)	[0.012 , 0.10225]	2
Co-Bagging (NN)	[-0.0467 , -0.0077]	2
Co-Bagging (C45)	[-0.06945 , -0.0161]	2
Co-Bagging (NB)	[-0.033 , 0.0192]	2
Co-Bagging (SMO)	[-0.0606 , -0.00655]	2
Rel-Rasco (NN)	[0.045 , 0.12175]	2
Rel-Rasco (C45)	[-0.001 , 0.0748]	2
Rel-Rasco (NB)	[-0.0021 , 0.0665]	2
Rel-Rasco (SMO)	[0.01305 , 0.1098]	2
CLCC	[0.0012 , 0.0608]	2
SNNRCE	[-0.05445 , -0.01725]	2
ADE-CoForest	[-0.03665 , 0.014]	2

Table 99: Confidence intervals for algorithm APSSC ( $\alpha=0.95$ )

## 34 Detailed results for SNNRCE

### 34.1 Results

VS	$R^+$	$R^-$	Exact P-value	Asymptotic P-value
Self-Training (NN)	1158.5	381.5	-	0.001064
Self-Training (C45)	737.0	803.0	-	1
Self-Training (NB)	1109.0	431.0	-	0.004448
Self-Training (SMO)	865.5	619.5	-	0.287099
Co-Training (NN)	1258.5	281.5	-	0.00004
Co-Training (C45)	749.0	791.0	-	1
Co-Training (NB)	1014.0	526.0	-	0.040506
Co-Training (SMO)	779.5	760.5	-	0.933157
Democratic-Co	574.0	966.0	-	1
SETRED	1005.5	479.5	-	0.022399
TriTraining (NN)	1138.0	402.0	-	0.001932
TriTraining (C45)	669.0	871.0	-	1
TriTraining (NB)	956.5	583.5	-	0.116781
TriTraining (SMO)	828.5	711.5	-	0.620704
DE-TriTraining (NN)	1011.0	529.0	-	0.042377
DE-TriTraining (C45)	788.0	752.0	-	0.876562
DE-TriTraining (NB)	1031.0	509.0	-	0.028452
DE-TriTraining (SMO)	764.0	721.0	-	0.84944
CoForest	659.0	826.0	-	1
Rasco (NN)	1535.0	5.0	-	0
Rasco (C45)	1255.0	285.0	-	0.000047
Rasco (NB)	1259.0	281.0	-	0.00004
Rasco (SMO)	1332.0	208.0	-	0.000002
Co-Bagging (NN)	933.5	606.5	-	0.167629
Co-Bagging (C45)	668.5	871.5	-	1
Co-Bagging (NB)	1023.0	517.0	-	0.033673
Co-Bagging (SMO)	749.0	791.0	-	1
Rel-Rasco (NN)	1532.0	8.0	-	0
Rel-Rasco (C45)	1250.5	289.5	-	0.000055
Rel-Rasco (NB)	1234.0	306.0	-	0.000098
Rel-Rasco (SMO)	1345.0	195.0	-	0.000001
CLCC	1233.0	307.0	-	0.000101
APSSC	1197.5	342.5	-	0.000331
ADE-CoForest	946.5	593.5	-	0.137248

Table 100: Results obtained by the Wilcoxon test for algorithm SNNRCE

### 34.2 Confidence intervals for Median of differences

$\alpha=0.90$	Confidence interval	Exact confidence
Self-Training (NN)	[0.00435 , 0.01165]	2
Self-Training (C45)	[-0.015 , 0.0125]	2
Self-Training (NB)	[0.0139 , 0.0586]	2
Self-Training (SMO)	[-0.00385 , 0.0265]	2
Co-Training (NN)	[0.0079 , 0.0216]	2
Co-Training (C45)	[-0.01615 , 0.0144]	2
Co-Training (NB)	[0.0039 , 0.0432]	2
Co-Training (SMO)	[-0.0099 , 0.01155]	2
Democratic-Co	[-0.0199 , -0.0001]	2
SETRED	[0.00145 , 0.0087]	2
TriTraining (NN)	[0.00395 , 0.012]	2
TriTraining (C45)	[-0.0216 , 0.0071]	2
TriTraining (NB)	[-0.00105 , 0.0421]	2
TriTraining (SMO)	[-0.00605 , 0.0118]	2
DE-TriTraining (NN)	[0.0014 , 0.0192]	2
DE-TriTraining (C45)	[-0.00925 , 0.01455]	2
DE-TriTraining (NB)	[0.007 , 0.04835]	2
DE-TriTraining (SMO)	[-0.0058 , 0.0082]	2
CoForest	[-0.01725 , 0.0055]	2
Rasco (NN)	[0.07755 , 0.1467]	2
Rasco (C45)	[0.0419 , 0.1139]	2
Rasco (NB)	[0.03985 , 0.101]	2
Rasco (SMO)	[0.05055 , 0.1378]	2
Co-Bagging (NN)	[-0.00055 , 0.00665]	2
Co-Bagging (C45)	[-0.02115 , 0.0071]	2
Co-Bagging (NB)	[0.0044 , 0.04245]	2
Co-Bagging (SMO)	[-0.0085 , 0.0073]	2
Rel-Rasco (NN)	[0.0772 , 0.14585]	2
Rel-Rasco (C45)	[0.0415 , 0.109]	2
Rel-Rasco (NB)	[0.03785 , 0.09695]	2
Rel-Rasco (SMO)	[0.0519 , 0.14435]	2
CLCC	[0.0274 , 0.0897]	2
APSSC	[0.01975 , 0.0508]	2
ADE-CoForest	[-0.001 , 0.02035]	2

Table 101: Confidence intervals for algorithm SNNRCE ( $\alpha=0.90$ )

$\alpha=0.95$	Confidence interval	Exact confidence
Self-Training (NN)	[0.0034 , 0.0125]	2
Self-Training (C45)	[-0.01865 , 0.01495]	2
Self-Training (NB)	[0.0096 , 0.06445]	2
Self-Training (SMO)	[-0.00665 , 0.02965]	2
Co-Training (NN)	[0.00695 , 0.0239]	2
Co-Training (C45)	[-0.01935 , 0.01775]	2
Co-Training (NB)	[0.0009 , 0.04795]	2
Co-Training (SMO)	[-0.01215 , 0.0141]	2
Democratic-Co	[-0.0218 , 0.00235]	2
SETRED	[0.00085 , 0.0091]	2
TriTraining (NN)	[0.0033 , 0.01275]	2
TriTraining (C45)	[-0.02405 , 0.0096]	2
TriTraining (NB)	[-0.0042 , 0.0468]	2
TriTraining (SMO)	[-0.00785 , 0.0145]	2
DE-TriTraining (NN)	[0.0004 , 0.02145]	2
DE-TriTraining (C45)	[-0.01105 , 0.0173]	2
DE-TriTraining (NB)	[0.0028 , 0.0519]	2
DE-TriTraining (SMO)	[-0.00685 , 0.00955]	2
CoForest	[-0.01895 , 0.0084]	2
Rasco (NN)	[0.0746 , 0.1567]	2
Rasco (C45)	[0.03675 , 0.1228]	2
Rasco (NB)	[0.0354 , 0.1072]	2
Rasco (SMO)	[0.04495 , 0.1458]	2
Co-Bagging (NN)	[-0.00135 , 0.00755]	2
Co-Bagging (C45)	[-0.0242 , 0.0098]	2
Co-Bagging (NB)	[0.0014 , 0.0465]	2
Co-Bagging (SMO)	[-0.0105 , 0.00955]	2
Rel-Rasco (NN)	[0.07245 , 0.1565]	2
Rel-Rasco (C45)	[0.03605 , 0.11885]	2
Rel-Rasco (NB)	[0.0345 , 0.1035]	2
Rel-Rasco (SMO)	[0.04665 , 0.1523]	2
CLCC	[0.02355 , 0.09775]	2
APSSC	[0.01725 , 0.05445]	2
ADE-CoForest	[-0.00215 , 0.0245]	2

Table 102: Confidence intervals for algorithm SNNRCE ( $\alpha=0.95$ )

## 35 Detailed results for ADE-CoForest

### 35.1 Results

VS	$R^+$	$R^-$	Exact P-value	Asymptotic P-value
Self-Training (NN)	739.0	801.0	-	1
Self-Training (C45)	568.5	971.5	-	1
Self-Training (NB)	996.0	544.0	-	0.05773
Self-Training (SMO)	672.0	868.0	-	1
Co-Training (NN)	877.5	662.5	-	0.365025
Co-Training (C45)	584.0	956.0	-	1
Co-Training (NB)	860.0	680.0	-	0.448296
Co-Training (SMO)	640.0	900.0	-	1
Democratic-Co	391.0	1149.0	-	1
SETRED	688.0	852.0	-	1
TriTraining (NN)	715.5	824.5	-	1
TriTraining (C45)	437.5	1102.5	-	1
TriTraining (NB)	817.5	722.5	-	0.687248
TriTraining (SMO)	652.0	888.0	-	1
DE-TriTraining (NN)	741.0	744.0	-	1
DE-TriTraining (C45)	695.0	790.0	-	1
DE-TriTraining (NB)	955.0	530.0	-	0.066657
DE-TriTraining (SMO)	596.5	888.5	-	1
CoForest	451.0	1034.0	-	1
Rasco (NN)	1399.0	141.0	-	0
Rasco (C45)	1115.0	425.0	-	0.003758
Rasco (NB)	1161.5	378.5	-	0.00101
Rasco (SMO)	1197.0	343.0	-	0.000341
Co-Bagging (NN)	659.0	881.0	-	1
Co-Bagging (C45)	467.0	1073.0	-	1
Co-Bagging (NB)	884.5	655.5	-	0.334267
Co-Bagging (SMO)	627.0	913.0	-	1
Rel-Rasco (NN)	1389.0	151.0	-	0
Rel-Rasco (C45)	1111.0	429.0	-	0.00418
Rel-Rasco (NB)	1151.0	389.0	-	0.001391
Rel-Rasco (SMO)	1207.0	333.0	-	0.000247
CLCC	1237.0	303.0	-	0.000088
APSSC	878.0	662.0	-	0.363312
SNNRCE	593.5	946.5	-	1

Table 103: Results obtained by the Wilcoxon test for algorithm ADE-CoForest

### 35.2 Confidence intervals for Median of differences



$\alpha=0.90$	Confidence interval	Exact confidence
Self-Training (NN)	[-0.02155 , 0.0095]	2
Self-Training (C45)	[-0.0257 , -0.0003]	2
Self-Training (NB)	[0.00345 , 0.03975]	2
Self-Training (SMO)	[-0.01985 , 0.0063]	2
Co-Training (NN)	[-0.00725 , 0.0167]	2
Co-Training (C45)	[-0.0259 , 0.0007]	2
Co-Training (NB)	[-0.00865 , 0.0222]	2
Co-Training (SMO)	[-0.0266 , 0.00405]	2
Democratic-Co	[-0.03055 , -0.008]	2
SETRED	[-0.02225 , 0.0059]	2
TriTraining (NN)	[-0.02165 , 0.00825]	2
TriTraining (C45)	[-0.03475 , -0.00845]	2
TriTraining (NB)	[-0.0145 , 0.02]	2
TriTraining (SMO)	[-0.0244 , 0.00555]	2
DE-TriTraining (NN)	[-0.00585 , 0.0039]	2
DE-TriTraining (C45)	[-0.00745 , 0.0041]	2
DE-TriTraining (NB)	[0.001 , 0.0271]	2
DE-TriTraining (SMO)	[-0.01015 , 0.0012]	2
CoForest	[-0.02875 , -0.00585]	2
Rasco (NN)	[0.0689 , 0.11715]	2
Rasco (C45)	[0.0239 , 0.0894]	2
Rasco (NB)	[0.0229 , 0.07485]	2
Rasco (SMO)	[0.03895 , 0.1051]	2
Co-Bagging (NN)	[-0.01395 , 0.0023]	2
Co-Bagging (C45)	[-0.0334 , -0.00705]	2
Co-Bagging (NB)	[-0.00435 , 0.0221]	2
Co-Bagging (SMO)	[-0.0254 , 0.00325]	2
Rel-Rasco (NN)	[0.06665 , 0.11635]	2
Rel-Rasco (C45)	[0.0231 , 0.08355]	2
Rel-Rasco (NB)	[0.0213 , 0.07305]	2
Rel-Rasco (SMO)	[0.04055 , 0.1112]	2
CLCC	[0.0158 , 0.04275]	2
APSSC	[-0.00975 , 0.03215]	2
SNNRCE	[-0.02035 , 0.001]	2

Table 104: Confidence intervals for algorithm ADE-CoForest ( $\alpha=0.90$ )

$\alpha=0.95$	Confidence interval	Exact confidence
Self-Training (NN)	[-0.0288 , 0.0117]	2
Self-Training (C45)	[-0.0305 , 0.00205]	2
Self-Training (NB)	[-0.0002 , 0.0441]	2
Self-Training (SMO)	[-0.0235 , 0.0088]	2
Co-Training (NN)	[-0.0117 , 0.0183]	2
Co-Training (C45)	[-0.0304 , 0.0034]	2
Co-Training (NB)	[-0.01145 , 0.0264]	2
Co-Training (SMO)	[-0.0297 , 0.00655]	2
Democratic-Co	[-0.03465 , -0.00585]	2
SETRED	[-0.0278 , 0.00755]	2
TriTraining (NN)	[-0.02665 , 0.00985]	2
TriTraining (C45)	[-0.0382 , -0.0065]	2
TriTraining (NB)	[-0.01735 , 0.0254]	2
TriTraining (SMO)	[-0.02775 , 0.00815]	2
DE-TriTraining (NN)	[-0.0076 , 0.0047]	2
DE-TriTraining (C45)	[-0.0096 , 0.00535]	2
DE-TriTraining (NB)	[-0.001 , 0.02955]	2
DE-TriTraining (SMO)	[-0.01165 , 0.00255]	2
CoForest	[-0.0305 , -0.00325]	2
Rasco (NN)	[0.06325 , 0.1246]	2
Rasco (C45)	[0.01695 , 0.0935]	2
Rasco (NB)	[0.0193 , 0.08]	2
Rasco (SMO)	[0.03305 , 0.11255]	2
Co-Bagging (NN)	[-0.0168 , 0.00305]	2
Co-Bagging (C45)	[-0.03705 , -0.0043]	2
Co-Bagging (NB)	[-0.0071 , 0.02435]	2
Co-Bagging (SMO)	[-0.02835 , 0.00605]	2
Rel-Rasco (NN)	[0.0625 , 0.1222]	2
Rel-Rasco (C45)	[0.01625 , 0.0912]	2
Rel-Rasco (NB)	[0.0169 , 0.07965]	2
Rel-Rasco (SMO)	[0.03415 , 0.1202]	2
CLCC	[0.0139 , 0.04535]	2
APSSC	[-0.014 , 0.03665]	2
SNNRCE	[-0.0245 , 0.00215]	2

Table 105: Confidence intervals for algorithm ADE-CoForest ( $\alpha=0.95$ )