Dataset: 04\_ionosphere.csv\_clean.csv Num classes: 2 Prop classes: 0.35 0.65 AvgProb(Rnd\_A): 0.567 - (Rnd\_B): 0.557 - (Rnd\_C): 0.564 MedianProb(Rnd\_A): 0.623 - (Rnd\_B): 0.609 - (Rnd\_C): 0.619 Expected accuracy (Rnd Classifier): 0.545 Opt (Abil): 2.235 - Opt (AvgProb): 0.978 Pess (Abil): -5.89 - Pess (AvgProb): 0.322 Hist. Difficulty (All instances) Items by Dscrmn (colour) & Dffclt (size) – (0.35 0.65) Hist. Difficulty (Noisy instances) Dffclt 200 **●** −3.0 count count -1.5 0.0 100 3.0 25 50 Dscrmn Dffclt **Dffclt** Hist. Discriminant (All instances) Hist. Discriminant (Noisy instances) 0.0 -1.5 100 count count factor(Class) ■ 0 **1** 0.0 2.5 5.0 7.5 -0.75 -0.50 -0.25 pc1 Dscrmn Dscrmn Avg. Prob Success vs Accuracy OptimalClass 1.00 OptimalClass MajorityClass RandomClass\_A Accuracy 0.500 RandomClass\_B RandomClass\_C •MinorityClass 0.25 0.00 PessimalClass 0.25 0.00 0.75 1.00 **Ability Average Probability of Success** Histogram Accuracies (classifiers) 40 oonut 30 -10 0.75 1.00 0.00 0.25 0.50

pc2

-2.5

MajorityClass

RandomClass\_A

RandomClass\_C

Histogram abilities (classifiers)

Ability

Acc

Ability vs Accuracy

RandomClass\_B 6

-MinorityClass

0.00 PessimalClass

30

conut

10

-5.0

1.00