Dataset: 04_ionosphere.csv Num classes: 2 Prop classes: 0.36 0.64 AvgProb(Rnd_A): 0.559 - (Rnd_B): 0.57 - (Rnd_C): 0.542 MedianProb(Rnd_A): 0.645 - (Rnd_B): 0.661 - (Rnd_C): 0.62 Expected accuracy (Rnd Classifier): 0.5392 Opt (Abil): 4.127 - Opt (AvgProb): 0.988 Pess (Abil): -8.063 - Pess (AvgProb): 0.023 Items by Dscrmn (colour) & Dffclt (size) – (0.36 0.64) Hist. Difficulty (All instances) Hist. Difficulty (Noisy instances) Dffclt **●** −3.0 count -1.5 0.0 20 3.0 Dscrmn Dffclt **Dffclt** Hist. Discriminant (Noisy instances) Hist. Discriminant (All instances) 0.0 -1.5 300 -3.0 count count factor(Class) **o** 100 2.5 5.0 7.5 0.75 1.00 1.25 1.50 0.50 Dscrmn Dscrmn Avg. Prob Success vs Accuracy OptimalClass• OptimalClass• 1.00 0.75 MajorityClass RandomClass_B Accuracy 05.0 RandomClass_C MinorityClass 0.25 0.00 PessimalClass 0.25 0.75 0.00 0.50 1.00 Ability **Average Probability of Success** Histogram Accuracies (classifiers) 60 count 20

0.75

1.00

0.50

Acc

0.00

0.25

pc2

-5.0

Ability vs Accuracy

1.00

0.75

0.25

60

toonut 40

20

0.0

MajorityClass

RandomClass_B

Histogram abilities (classifiers)

Ability

RandomClass_C

MinorityClass

0.00 PessimalClass

RandomClass_A

pc1