Dataset: 12_flags.csv_clean.csv Num classes: 5 Prop classes: 0.23 0.31 0.22 0.16 0.08 AvgProb(Rnd_A): 0.203 - (Rnd_B): 0.218 - (Rnd_C): 0.213 MedianProb(Rnd_A): 0.172 - (Rnd_B): 0.183 - (Rnd_C): 0.177 Expected accuracy (Rnd Classifier): 0.2294 Opt (Abil): 4.27 - Opt (AvgProb): 0.906 Pess (Abil): -4.145 - Pess (AvgProb): 0.177 Items by Dscrmn (colour) & Dffclt (size) - (0.23 0.31 0.22 0.16 0.08) Hist. Difficulty (All instances) Hist. Difficulty (Noisy instances) 150 Dffclt **●** −3.0 count 1.5 Dscrmn 500 1000 1500 -20 -10 1.5 Dffclt Dffclt Hist. Discriminant (All instances) Hist. Discriminant (Noisy instances) -1.5 -3.0 factor(Class) ■ 0 count count -1.0 -0.5 5.0 0.0 0.0 2.5 7.5 pc1 Dscrmn Dscrmn Avg. Prob Success vs Accuracy OptimalClass • 1.00 OptimalClass 0.75 Accuracy 0.500 0.25 RandomClass_A MinorityClass PessimalClass 0.00 0.25 0.00 0.75 1.00 **Ability Average Probability of Success** Histogram Accuracies (classifiers) 20 count 10 -0.25 0.75 1.00 0.00 0.50

pc2

1.00

Accuracy 0.500

40

30

10

-5.0

conut

Ability vs Accuracy

RandomClass_B

RandomClass_A

Histogram abilities (classifiers)

-2.5

0.0

Ability

2.5

MinorityClass

PessimalClass