Dataset: 09\_teaching.csv\_clean.csv Num classes: 3 Prop classes: 0.3 0.35 0.35 AvgProb(Rnd\_A): 0.324 - (Rnd\_B): 0.348 - (Rnd\_C): 0.336 MedianProb(Rnd\_A): 0.265 - (Rnd\_B): 0.33 - (Rnd\_C): 0.299 Expected accuracy (Rnd Classifier): 0.335 Opt (Abil): 2.072 - Opt (AvgProb): 0.892 Pess (Abil): -3.177 - Pess (AvgProb): 0.282 Hist. Difficulty (All instances) Hist. Difficulty (Noisy instances) Items by Dscrmn (colour) & Dffclt (size) – (0.3 0.35 0.35) Dffclt -3.0 conut 0.0 25 3.0 Dscrmn -10 20 60 Dffclt Dffclt Hist. Discriminant (All instances) Hist. Discriminant (Noisy instances) 0.0 -3.0 factor(Class) count count **o** • 2 7.5 5.0 0.0 2.5 -2.5 pc1 Dscrmn Dscrmn Avg. Prob Success vs Accuracy OptimalClass 1.00 OptimalClass 0.75 Accuracy 0.500 MajorityClass Pandom@lass\_B Majority@lass RandomClass\_B RandomClass\_A MinorityClass RandomClass\_A MinorityClass 0.25 0.00 PessimalClass 0.00 0.25 0.75 1.00 **Ability Average Probability of Success** Histogram Accuracies (classifiers) 20 count 10 -0.25 0.50 0.75 0.00 1.00

pc2

1.00

Accuracy 0.500

0.25

0.00

30

count

10

PessimalClass

Ability

Acc

Histogram abilities (classifiers)

Ability vs Accuracy