Dataset: 11_ecoli.csv_clean.csv Num classes: 5 Prop classes: 0.45 0.22 0.11 0.06 0.16 AvgProb(Rnd_A): 0.274 - (Rnd_B): 0.267 - (Rnd_C): 0.255 MedianProb(Rnd_A): 0.153 - (Rnd_B): 0.153 - (Rnd_C): 0.152 Expected accuracy (Rnd Classifier): 0.2922 Opt (Abil): 3.394 - Opt (AvgProb): 0.965 Pess (Abil): -6.054 - Pess (AvgProb): 0.074 Hist. Difficulty (All instances) Hist. Difficulty (Noisy instances) Items by Dscrmn (colour) & Dffclt (size) - (0.45 0.22 0.11 0.06 0.16) Dffclt -3.0 100 -1.5 0.0 count 1.5 3.0 factor(Class) ■ ср 10 ▲ im Dffclt **Dffclt** Hist. Discriminant (All instances) Hist. Discriminant (Noisy instances) 100 Dscrmn count 1.5 0.0 -1.5 25 -1.0-0.5 -0.8 -0.4 100 0.0 pc1 Dscrmn Dscrmn Avg. Prob Success vs Accuracy 1.00 OptimalClass OptimalClass 0.75 Accuracy 0.5.0 MajorityClass RandomClass_B [≪]RandomClass_A RandomClass C 0.25 MinorityClass PessimalClass 0.00 0.00 0.25 0.50 0.75 1.00 **Ability Average Probability of Success** Histogram Accuracies (classifiers) 40 20 -0.75 0.00 0.25 0.50 1.00

0.75

0.50

0.25

0.00

-0.25

1.00

Accuracy 0.5.0

count

20

-1.5

Ability vs Accuracy

•MajorityClass

Histogram abilities (classifiers)

-2.5

Ability

0.0

-5.0

2.5

Acc

RandomClass_B

RandomClass_A

0.25 - RandomClass_C

MinorityClass

0.00 PessimalClass