Dataset: 06\_balance-scale.csv\_clean.csv Num classes: 3 Prop classes: 0.07 0.47 0.46 AvgProb(Rnd\_A): 0.454 - (Rnd\_B): 0.446 - (Rnd\_C): 0.43 MedianProb(Rnd\_A): 0.504 - (Rnd\_B): 0.486 - (Rnd\_C): 0.44 Expected accuracy (Rnd Classifier): 0.4374 Opt (Abil): 4.559 - Opt (AvgProb): 0.978 Pess (Abil): -5.129 - Pess (AvgProb): 0.177 Hist. Difficulty (All instances) Items by Dscrmn (colour) & Dffclt (size) – (0.07 0.47 0.46) Hist. Difficulty (Noisy instances) 10.0 -400 Dffclt 7.5 -3.0 oo nut **-**1.5 0.0 2.5 100 -3.0 Dscrmn 100 100 150 **Dffclt** Dffclt Hist. Discriminant (All instances) Hist. Discriminant (Noisy instances) 0.0 125 100 factor(Class) ▲ L 25 0.0 2.5 5.0 -0.75 -0.50-0.25 0.00 pc1 Dscrmn Dscrmn Avg. Prob Success vs Accuracy Ability vs Accuracy OptimalClass -1.00 0.75 Accuracy 0.500 MajorityClass RandomClass\_A RandomClass\_A

RandomClass\_B RandomClass\_B RandomClass\_C RandomClass\_C 0.25 MinorityClass 0.00 PessimalClass 0.25 0.00 0.50 0.75 1.00 **Ability Average Probability of Success** Histogram Accuracies (classifiers) Histogram abilities (classifiers) 40 -30 count 20 10 -0.75 0.25 1.00 0.00 0.50 Ability Acc

bc2 -6

1.00

Accuracy 0.500

0.25

30

conut

10

- Minority Class

0.00 PessimalClass

-2.5