Motivation #2 – More Realism

Different Uses of a Classifier:

- DIAGNOSIS
  make the optimal decision for each individual

- SCREENING
  given a set of individuals, select the optimal subset of a given size or proportion
    e.g. keyphrase extraction
    e.g. document retrieval
    e.g. workforce utlization

Provost and Fawcett show that the optimal classifiers for these and other common uses of classifiers lie on the ROC Convex Hull.