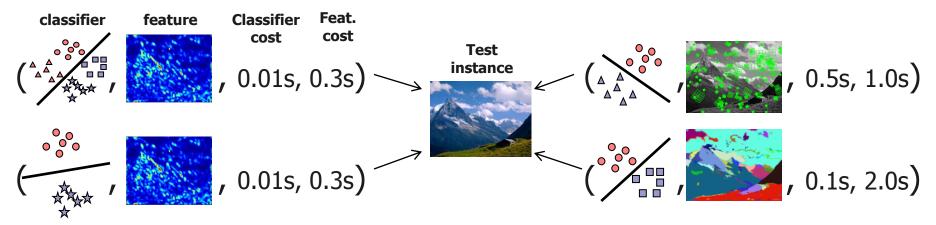


Can we enjoy the statistical gain of using multiple features/kernels/classifiers at a small computational cost?



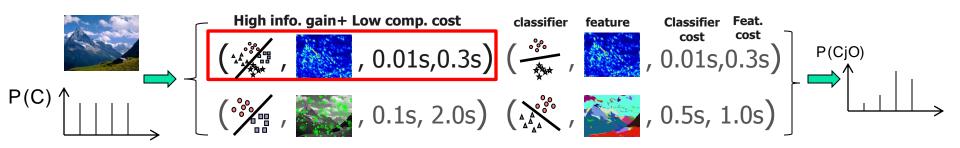
Given an ensemble of classifiers (built on multiple features):

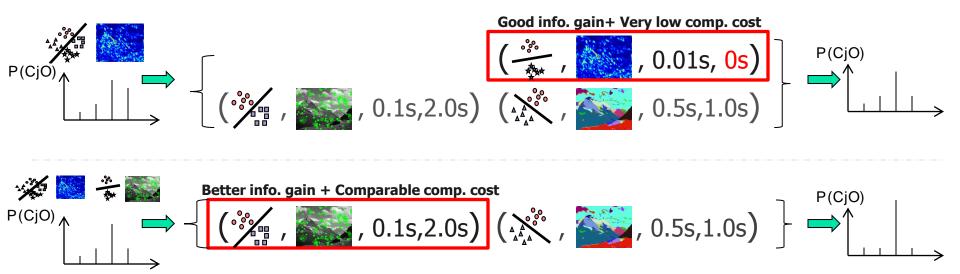


Active classification process:

- classification as a sensing problem: each classifier is viewed as a potential *observation* that might inform our classification process
- a dynamic process: observations are selected sequentially based on previous observations
- selection based on value of classifier
 - A value-theoretic computation that balances an estimate of the expected classification gain and its computational cost







Model/Algorithm Highlights: instance-specific, dynamic, robust, joint consideration of statistical and computational properties

Results (multiple features)

