Project Overview

• We wish to fundamentally improve the search for relevant information from large relatively unstructured databases

• Our goal is to develop an optimal interactive retrieval system
  – We extend existing machine learning methods to solve the associated challenges
  – We design and develop proof of concept tools
Progress Through June 2001

- Information theoretic formulation and the associated algorithms for optimally eliciting user feedback at multiple levels of abstraction
- A new approach for combining multiple incomplete sources of information in a stable and accurate manner
- New representations and classification algorithms for exploiting sparse similarity assessments in large unannotated databases
Research Plan for the Next Six Months

• Focus gradually shifting towards implementation and testing

• Specific tasks:
  – Design and development of a flexible user interface to support active learning
  – Expanding query flexibility
  – Active learning extension of robust multi-source allocation
  – Formulation of transfer across multiple tasks