

# Next Generation Search Engines

- More specialized/customized (vertical search engines)
  - Special group of users (community engines, e.g., CiteSeer)
  - Personalized (better understanding of users)
  - Special genre/domain (better understanding of documents)
- Learning over time (evolving)
- Integration of search, navigation, and recommendation/filtering (full-fledged information management)
- Beyond search to support tasks (e.g., shopping)
- Many opportunities for innovations!