

# Information Search & Interaction

623.412 Selected Topics in Interactive Systems

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As the amount of information stored electronically increases, the ability to efficiently and effectively search through this information becomes crucial. Poor search solutions can result in missed business opportunities for companies, as the sales department did not find the crucial information about a less well-known company capability; lawsuits due to a patent being missed when doing a freedom-to-operate search; and death due to not finding key information about diagnosing a rare disease.



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## Content and Topics:

This course will begin with an introduction to the basics of search and information retrieval, including indexing and scoring. Practical exercises will demonstrate the search basics in a hands-on way, and provide experience with Lucene, one of the most commonly used open source search solutions. More advanced search topics to be covered include probabilistic models, latent and explicit semantic analysis and search user interfaces. It is crucial to know how well search solutions function, so methods for the evaluation of search systems receive particular emphasis. Finally, specific domains of application of search will be covered, including web search, patent search and search for medical information.

## **Topics:**

- Search, Indexing, Information Retrieval, Evaluation, Implicit and Explicit Semantics
- Web Search, Probabilistic Models for Search
- Search User Interfaces
- Interactive Search
- Domain-Specific Search, Health Domain, Intellectual Property Domain

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