Information Storage and Retrieval  
Spring 2013

Foundational Concepts

History of IR, Problems in IR, Notable Methods

   - ch. 01 Boolean retrieval
   - ch. 06 Scoring, term weighting & the vector space model
   - ch. 09 Relevance feedback & query expansion
   - ch. 11 Probabilistic information retrieval
   - ch. 12 Language Models for Information Retrieval

Evaluation

   - 2. What is Interactive Information Retrieval?
   - 4. Approaches
   - 6: Experimental Design
   - 10. Measures
   - 11. Data Analysis
Automated Methods of Inference

Text Mining, Natural Language Processing, and Machine Learning

   • Ch 6. Statistical Inference: n-gram Models over Sparse Data
   • Ch 7. Word Sense Disambiguation
   • Ch 9. Markov Models
   • Ch 14. Clustering
   • Ch 16. Text Categorization

Social Network Analysis

State of Art, Representative for Social Network Analysis, Representative for Quantitative Approach/Network Science, Core Theory


Community Informatics

Notable Theory, State of Art, Information Retrieval in Context of Community Informatics