Information Storage and Retrieval
Field Exam Reading List
Fall 2008

A. Basic Concepts

   Chapter 2. Document and Query Forms, pp. 17-49
   Chapter 3. Query Structures, pp. 51-77
   Chapter 4. The Matching Process, 79-104
   Chapter 5. Text Analysis, pp. 105-143
   Chapter 8. Retrieval Effectiveness Measures, pp. 191-218

   Chapter 2 Data, Information, and Knowledge
   Chapter 3 Representation of Information
   Chapter 4 Attribute Content and Values
   Chapter 5 Models of Virtual Data Structure
   Chapter 6 The Physical Structure of Data
   Chapter 16 Measurement and Evaluation


B. Evaluation


C. Information Retrieval in Web Environment


D. Artificial Intelligence and Machine Learning

   Chapter 2: Problem Solving by Searching
   Chapter 3: Knowledge and reasoning
   Chapter 4: Planning
   Chapter 5: Uncertain knowledge and reasoning
   Chapter 6: Learning
   Chapter 2: Input: Concepts, instances, attributes
   Chapter 3: Output: Knowledge representation
   Chapter 4: Algorithms: The basic methods
   Chapter 5: Evaluating what’s been learned
   Chapter 6: Implementations: Real machine learning schemes


E. Natural Language Processing and Text-Mining


