

Syllabus

Information Retrieval

Course Name	Course type (credit/hours)		전선(3/3)		Course code	
	Target students Division/major/grade		/		Opening semester	
	Class time and classroom		월D(팔1025) 목D(팔1025)(팔1025)			
Reference to this course	Related basic courses					
	Recommended concurrent courses					
	Related advanced courses					
Instructor	Name (title/division)					
	Office Room Number		Office phone Number	2437	e-mail	minkoo@ajou.ac.kr
	Office hours		Homepage address			
Teaching Assistant	Name (title/division)					
	Office Room Number		Office phone Number		e-mail	

1. Introduction

This course introduces information retrieval overall. In the first part, it covers Boolean retrieval and basic techniques for indexing and retrieving. In the second part, it covers advanced topics: relevance feedback, XML retrieval, vector model, probabilistic model, and classification methods. At the end of class, the students present research papers related with Web information retrieval.

2. Course Objectives

3. Class types and activities

4. Teaching Method

This course is a just regular lecture-oriented class. Except, at the end of class, the students will present some research papers.

5. Knowledge and ability required for taking this course

6. Method of Evaluation

Evaluation Item	The Number of Times	Evaluation Proportion	Remarks
Attendance			
midterm exam			
final exam			
quiz			
presentation			
discussion			
homework			
etc			

Midterm: 30%
Final: 30%
Homework and Attendance: 25%
Presentation: 15%

7. Textbooks

Main/Sub	Title	Writer	Publisher	Publication year
주교재	Introduction to Information Retrieval	Christopher D. Manning, Orabhakar Raghavan, and Hinrich Schutze	Cambridge University Press	2008

8. Lecture Schedule

Week	Lecture contents	Lesson type	Remark
1	Boolean retrieval	Lecture	Chapter 1
2	The term vocabulary and posting lists	Lecture	Chapter 2
3	Dictionaries and tolerant retrieval Index construction	Lecture	Chapter 3 and 4
4	Index construction Index compression	Lecture	Chapter 5
5	Scoring, term weighting, and the vector space model	Lecture	Chapter 6
6	Computing scores in a complete search engine	Lecture	Chapter 7
7	Evaluation in information retrieval	Lecture	Chapter 8
8	Midterm		
9	Relevance feedback and query expansion	Lecture	Chapter 9
10	XML retrieval	Lecture	Chapter 10
11	Probabilistic information retrieval	Lecture	Chapter 11
12	Language models for information retrieval	Lecture	Chapter 12
13	Text classification and Naive Bayes	Lecture	Chapter 13
14	Advanced Classification	Lecture	Chapter 14
15	Presentation	Presentation	
16	Final		

9. Others

This course will be taught in English