

CS 453 - Fundamentals of Information Retrieval - Lecture Schedule

Spring 2016

Week	Date	Lecture Topics	Reading	Assignments Due
1	Apr 27	Introduction to Class	1.1 - 1.4	
		Search Engine Architecture	2.1 - 2.3.3	
1	Apr 29	Indexing, Ranking, Evaluation	2.3.6	Homework 1
		Text Processing & Statistics	4.1 - 4.2	
2	May 2	Document Processing	4.3 - 4.4	
		Markup	4.5	
2	May 4	Ranking with Indexes	5.1 - 5.3	Homework 2
		B^+ -Tree Indexing	5.6	
2	May 6	Spell Checking	6.1 - 6.2	
		Query Feedback	6.2.4	
3	May 9	Snippets	6.3.1	Project 1
		Boolean IR Model	7.1.1	
3	May 11	Vector Space IR Model	7.1.2	
		Probabilistic IR Models	7.2.1	
3	May 13	BM25 Ranking IR Models	7.2.2	Homework 3
		Language Models	7.3.1	
4	May 16	Smoothing	7.3.2	
		Fuzzy Set IR Model	7	
4	May 18	Search Engine Evaluation	8.1	Homework 4
		Evaluation Corpus	8.2	
4	May 20-21	Midterm Exam 1 (Testing Center, No Class)	Chapters 2-7, Except 3	
5	May 23	Logging	8.3	
		Effectiveness Metrics	8.4	
5	May 25	Efficiency Metrics	8.5	Project 2
		Wilcoxon Tests	8.6	
5	May 27	Classification	9.1.1 - 9.1.2	Homework 5
		Classification Evaluation	9.1.3 - 9.1.4	
6	May 30	No Class (Memorial Day Holiday)		
6	Jun 1	Clustering: Hierarchical	9.2.1	Project 3
		Clustering: Divisive/Agglomerative	9.2.1	
6	Jun 3	Clustering: K-Means	9.2.2	
		Clustering: K Nearest Neighbor	9.2.3 - 9.2.4	
7	Jun 6	Clustering & Search	9.2.5	Homework 6
		Social Search & Tagging	10.1 - 10.2	
7	Jun 8	Searching with Community	10.3	
		Question Answering	10.3.2	
7	Jun 10	Question & Answering Systems	10.3.3	Homework 7
		Recommendation Systems	10.4	
8	Jun 13	Collaborative Filtering	10.4.2	Project 4
		Final Exam Review		

Final exam is on Wednesday, June 15 and Thursday, June 16 at the *Testing Center*.