EECS 498: Information Retrieval and Web Search

Winter 2015

MW 12-1:30pm

Instructor
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Course description
This course will cover traditional material, as well as recent advances in Information Retrieval (IR), the study of indexing, processing, querying, and classifying data. Basic retrieval models, algorithms, and IR system implementations will be covered. While the course will primarily focus on IR techniques for textual data, it will also address IR for other media, including images/videos, music/audio files, and geospatial information. The course will also address topics in Web search, including Web crawling, link analysis, search engine development, social media, and crowdsourcing. Throughout the course, there will be two or three invited lectures from people working at major companies in the field (e.g., Google, Yahoo, Microsoft, Facebook, Twitter).

Prerequisites
EECS 281 Data Structures and Algorithms

Textbook
Introduction to Information Retrieval, online version available
Christopher D. Manning, Prabhakar Raghavan and Hinrich Schutze
Cambridge University Press, 2008.

Course work and grading
Programming assignments: 30%
Exam I: 20%
Exam II: 20%
Project: 25%
Class participation: 5%