

Course Overview

**464.561A Models and Technologies for
Information Services**

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words of caution

- course history
 - 406.534 Industrial Information Technology in Fall, 2007
 - course number changed to 464.561A
 - course title changed to “Models and Technologies for Information Services”
 - course title will be changed again :) to “Methods in Information Management” in 2012
- Retaking the same course with different titles **will not be counted** toward your course credits



let's get started

- course home page
 - <http://etl.snu.ac.kr/>
- introducing the instructor & TA
 - instructor: Jonghun Park (jonghun@snu.ac.kr)
 - TA: Bum-Seok Chung (bumddory@gmail.com)
- survey questions
 - prerequisites: 406.424 Internet Applications

course structure

- lectures on the fundamentals
- invited lectures
- presentations on the selected literature
- literature critiques
- one term project based on open source and real data
- one (near) final exam

Course Topics

- Mathematical Foundations
- Hidden Markov Models
 - Finite Mixture, EM, MaxEnt
- Support Vector Machines
- Logistic Regression, Neural Nets
- Generative Models
 - Latent Dirichlet Allocation
- Matrix Methods
 - SVD, LSA

paper presentations

- presentations
 - total 30 - 40 presentations by students
 - length: **25 min long** (hard constraint)
 - all presentations will be **evaluated by peers**
 - anonymous presentation evaluation form will be handed out
- literature critique
 - every student is asked to submit a **review report** (literature critique) for all papers
 - in-class, hardcopy submission
- oral test
 - on the materials in the paper
 - 3 randomly selected students for a paper
- pdf files for the papers will be uploaded to the course homepage soon
- presenter assignment to papers: next week

term project

- any problem that can be solved by using the methods taught in the class
- utilizes open source codes
- evaluation
 - midterm project proposal: report & presentation
 - final report & demo

wrap up

- all email submissions must be directed to the TA as well as the instructor