This course surveys the current research in information retrieval for the Internet and related topics. This course will focus on the theoretical development of information retrieval systems for multimedia contents as well as practical design and implementation issues associated with Internet search engines. Topics include probabilistic retrieval, relevance feedback, indexing of multimedia data, and applications in e-commerce.

Grade Descriptor: A

EXCELLENT - exceptionally good performance and far exceeding expectation in all or most of the course learning outcomes; demonstration of superior understanding of the subject matter, the ability to analyze problems and apply extensive knowledge, and skillful use of concepts and materials to derive proper solutions.

有关等級說明的資料，請參閱英文版本。

B

GOOD - good performance in all course learning outcomes and exceeding expectation in some of them; demonstration of good understanding of the subject matter and the ability to use proper concepts and materials to solve most of the problems encountered.

有關等級說明的資料，請參閱英文版本。

C

FAIR - adequate performance and meeting expectation in all course learning outcomes; demonstration of adequate understanding of the subject matter and the ability to solve simple problems.

有關等級說明的資料，請參閱英文版本。
D

MARGINAL – performance barely meets the expectation in the essential course learning outcomes; demonstration of partial understanding of the subject matter and the ability to solve simple problems.

F

FAILURE – performance does not meet the expectation in the essential course learning outcomes; demonstration of serious deficiencies and the need to retake the course.

Equivalent Offering:
Units: 3 (Min) / 3 (Max) / 3 (Acad Progress)
Grading Basis: Graded
Repeat for Credit: N
Multiple Enroll: N
Course Attributes: MSc Computer Science, MPhil-PhD Computer Sci & Erg, MPhil-PhD Electronic Erg, MPhil-PhD Info Engineering, MPhil-PhD Mechan & Auto Erg, MPhil-PhD System Erg & Erg Mgt, MPhil-PhD Information Engineering, MPhil-PhD Biomedical Engineering

Topics:

COURSE OUTCOMES
Learning Outcomes:

At the end of the course of studies, students will have acquired the ability to
1. understand the infrastructure and techniques behind Search Engines;
2. know the existing literature and research challenges in the area of Information Retrieval;
3. realize how to organize and manage huge amount of information, such as that from on the Web;
4. practice a real project in information retrieval system and/or search engine prototype.

Course Syllabus:

This course surveys the current research in information retrieval for the Internet and related topics. This course will focus on the theoretical development of information retrieval systems for multimedia contents as well as practical design and implementation issues associated with Internet search engines. Topics include probabilistic retrieval, relevance feedback, indexing of multimedia data, and applications in e-commerce.

Assessment Type:

- Essay test or exam: 40%
- Lab reports: 40%
- Others: 20%

Feedback for Evaluation:

1. Course evaluation and questionnaire
2. Question-and-answer sessions during class
3. Student consultation during office hours or online

Required Readings:


Recommended Readings:

6. Other papers associated with each topic

OFFERINGS

1. ENGG5106
   Acad Organization=CSEGv; Acad Career=RPG
COMPONENTS

LEC: Size=30; Final Exam=Y; Contact=3
TUT: Size=30; Final Exam=N; Contact=1

ENROLMENT REQUIREMENTS

1. ENGG5106
   Enrollment Requirement Group:
   For students in MSc Computer Science or MPhil-PhD programmes under Faculty of Engineering or UG Computer Science or UG Computer Engineering;
   Not for students who have taken CSCI5250

CAF

< END OF REPORT >