COURSE DETAIL

INFORMATION RESOURCE MANAGEMENT
Country China
Host Institution Tsinghua University
Program(s) Tsinghua University
UCEAP Course Level Upper Division
UCEAP Subject Area(s) Computer Science
UCEAP Course Number 173
UCEAP Course Suffix
UCEAP Official Title INFORMATION RESOURCE MANAGEMENT
UCEAP Transcript Title INFO RESOURCE MGMT
UCEAP Quarter Units 4.50
UCEAP Semester Units 3.00

Course Description

This class discusses the basic concepts and methods of information resource management, including capturing, representing, organizing, storing, processing and exploiting information. In particular, the introductory session will provide an overview of the definition and general types of information, the new forms of information in the era of social media, and the definition of information source. Web search engines, as one of the most important channels to obtain information in our daily life, will be discussed. Then, the class will cover the process of capturing, encoding, and initial processing of different information in digital media, followed by the essence of information management and extraction technologies, such as data warehouse, XML, and the Semantic Web. However, while more and more available information accelerates the development of new knowledge, issues pertaining to information security become evident too. Hence, this module also briefly explains the concepts of confidentiality, integrity and availability, as well as the mechanisms that provide security in various information systems and applications. Next, this module focuses on the applications of information resource management technologies in enterprises and in Web 2.0-baed e-commerce. First, the information architecture, strategies and services in enterprises w1 be introduced. Several cases on how information can be a strategic resource for companies will be studied. Second, several applications in Web 2.0-based e-commerce will be discussed in detail. Last but not least, in view of the abundance of information nowadays, this module will encourage student discussions on the problem of finding the relevant “needle in the haystack" and the problem of information overload.

Language(s) of Instruction
English

Host Institution Course Number
40511273

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INFORMATION RESOURCE MANAGEMENT

Host Institution Course Details

Host Institution Campus
Host Institution Faculty
Host Institution Degree
Host Institution Department School of Management
Course Last Reviewed 2023-2024

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