資料探勘
Data Mining
資訊工程系碩士班
課號 7407

Instructor：洪士程 副教授
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Course Time & Office Hours

- Course Time
- Thursday 2,3,4 (9:10 - 12:00)
- Classroom: M-312
- Office Hours
- Wednesday 9:00-12:00

Credits

- Required or Elective

  Elective (選修)

- Credits

  3 Credits（三學分）

Goal

- Understand the underlying algorithms and methods of data mining.
- Develop data mining programs and applications using available data mining tools and general-purpose languages.
- Understand visualization and navigation of data mining results.
- Learn basic programming in Matlab and use toolboxes of Matlab to perform feature selections, rule generations, classifications, or predictions.

Text Book

- Kantardzic, M., Data Mining—Concepts, Models, Methods, and Algorithms, 2003, Wiley- Interscience, NJ.

Reference Books

- Reference:

資料探勘 (Data Mining)

作者：曾憲雄、蔡秀滿、蘇東興、曾秋蓉、王慶堯

出版商：旗標

2005年

Schedule of Progress (1/2)

- Introduction to course (week 1)
- Chap 1 Data Mining Concepts (week 1)
- Chap 2 Preparing the Data (week 2)
- Chap 3 Data Reduction (week 3)
- Chap 4 Learning from Data (week 4)
- Chap 5 Statistical Methods (weeks 5,6)

Schedule of Progress (2/2)

- Chap 6 Cluster Analysis (week 7,8)
- Midterm exam (week 9)
- Chap 7 Decision trees and Decision Rules
- (weeks 10,11,12)
- Chap 8 Association Rules (weeks 13,14)
- Case study and oral presentation (weeks 15,16,17)
- Final project evaluation (week 18)

Resources

- Text Book
- Handout

http://lms.ctl.cyut.edu.tw/

LMS-數位學習系統

Evaluation

- Homework (30%)
- Participation (10%)
- Midterm exam (30%)
- Final project and Oral presentation (30%)