

資料探勘
Data Mining
資訊工程系碩士班
課號 7413

Instructor：洪士程 副教授


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Room:理工大樓E726

Tel: 7801

Course Time & Office Hours

Course Time

 Monday 5,6,7 (13:30 - 16:20)

 Classroom: E-518

Office Hours

 Wednesday 9:00-12:00

Credits





 Required or Elective

Elective (選修)

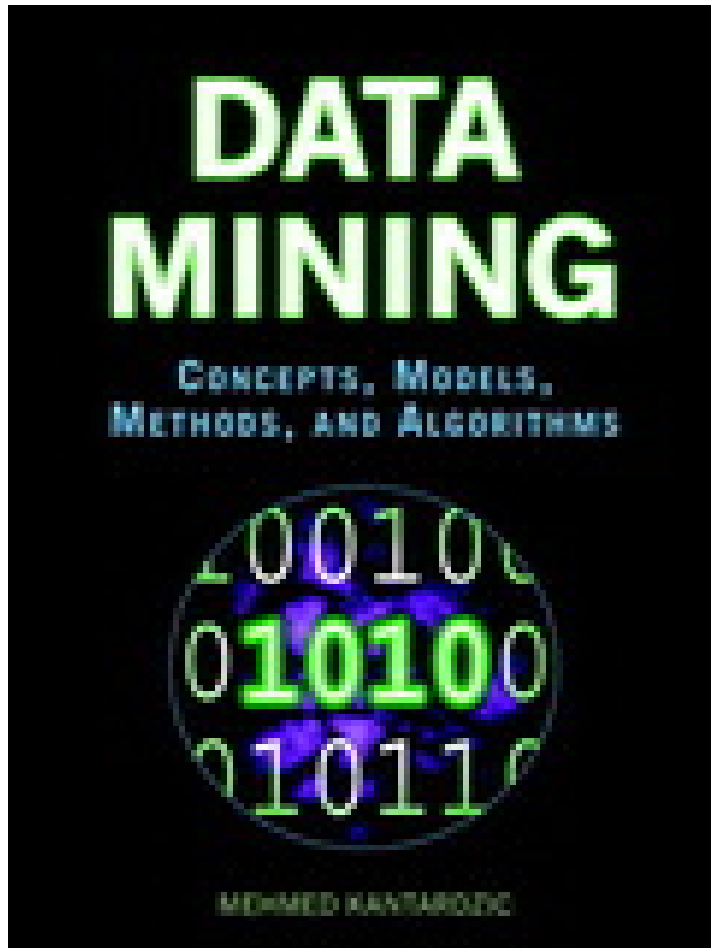
 Credits

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.

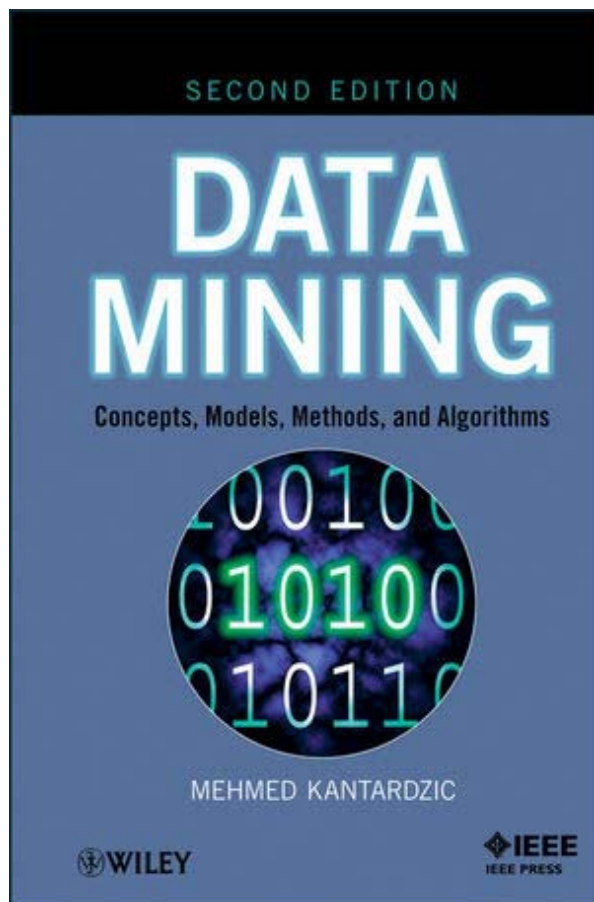
Text Book



Kantardzic, M.,
Data Mining—Concepts,
Models, Methods, and
Algorithms, 1st Edition,
2003, Wiley-Interscience,
NJ.

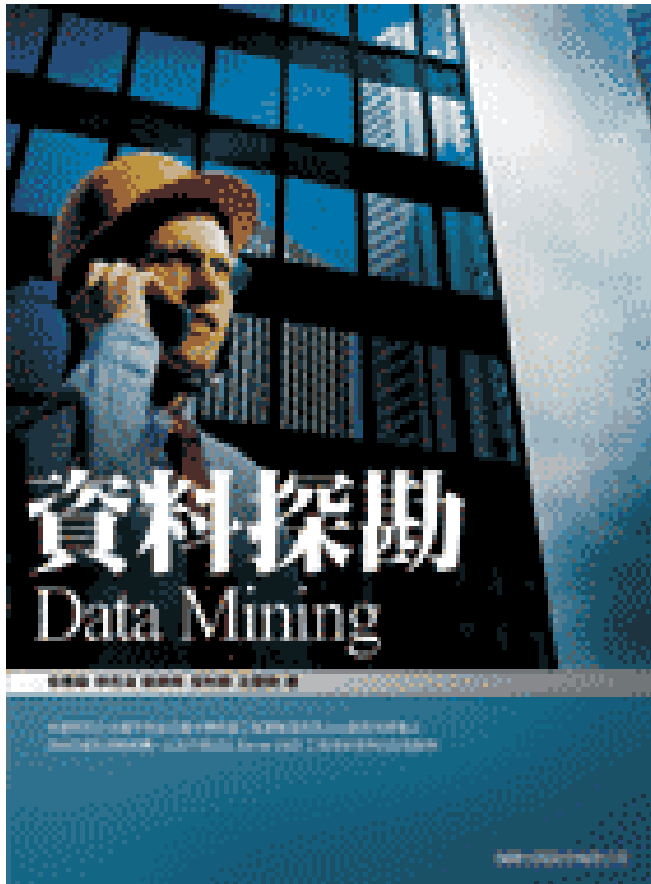
<http://ieeexplore.com/xpl/bkaabstractplus.jsp?reload=true&bkn=5265979>

Reference Books



Kantardzic, M.,
Data Mining—Concepts,
Models, Methods, and
Algorithms, 2nd Edition,
2011, Wiley-Interscience, NJ.
[http://akademik.maltepe.edu.tr/
~kadirerdem/772s_Data.Min
ing.Concepts.and.Technique
s.2nd.Ed.pdf](http://akademik.maltepe.edu.tr/~kadirerdem/772s_Data.Mining.Concepts.and.Techniques.2nd.Ed.pdf)

Reference Books









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

 Slides

<http://lmsctl.cyut.edu.tw/>

LMS-數位學習系統

Evaluation

 Homework (30%)

 Participation (10%)

 Midterm exam (30%)

 Final project and Oral presentation (30%)