An introduction to Data Mining

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My research experience

- Data mining research since 1994
  - Development of data mining algorithms
  - Applications to insurance/financial data
  - Applications to biological data
  - Applications to medical data
  - PhD obtained in 2001
  - 41 publications to date
  - Referee for a number of Journals
  - Member of a number of international conference committees.
My teaching experience

- University tutor/lecturer since 1994
  - programming
  - core computing science courses
  - data mining courses
  - specialist MSc programme in Knowledge Discovery and Data Mining
  - Short courses for Industry: insurance companies, police force, software houses,...

The course

- An introduction to data mining and Knowledge Discovery in Databases (KDD)
- Focus on practical application
- Introduction to main tools and techniques
- Emphasis on delivering business benefits
- But not enough time to cover every aspect!
Course aims

• Give an understanding of concepts, tools and techniques in each stage of the KDD process
• Examine general application through examples
• Develop skills to turn data into valuable knowledge
• Be interesting, informative and entertaining!

Course dynamics

• Consisting of
  • information/theory session
  • learning through examples
• Questions and interaction welcomed!