Data Mining

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Data Mining

- DM I: Foundations of Data Mining
- DM II: Advanced topics on Data Mining and case studies
DM I: Foundations of Data Mining

• **Instructors**
  • Dino Pedreschi, pedre@di.unipi.it
  • Anna Monreale, anna.monreale@unipi.it

• **Teaching assistant**
  • Riccardo Guidotti, guidotti@di.unipi.it

• **Classes**
  • Monday 11:00 - 13:00 Room C
  • Friday 14:00 - 16:00 Room A1

• **Office Hours**
  • Monday 14:00 – 16:00
  • Appointment by email (only when necessary)
DM I: Foundations of Data Mining

- Web Page
  - http://www.cli.di.unipi.it/doku/doku.php/dm/start

- Learning Material
  

- Slides of the classes

- Data mining software
  - **KNIME:** The Konstanz Information Miner. Download page
  - **Scikit-learn:** python library with tools for data mining and data analysis
Exam

• A **written exam**, with exercises and questions about methods and algorithms presented during the classes.
  • It can be substitute with the first and second mid-term tests (November and December)

• A **project**, consisting in exercises that require the use of data mining tools for analysis of data. Exercises include: data understanding, market basket analysis, clustering analysis and classification.
  • The project has to be performed by max 3 people.

• An **oral exam**, that includes: (1) discussing the project report with a group presentation; (2) discussing topics presented during the classes, including the theory of the parts already covered by the written exam.
Mailing list

• Send as soon as possible a mail to anna.monreale@unipi.it with the following data:
  • subject: “DM1”
  • text:
    • name
    • surname
    • student-id

• You will be included in a mailing list of urgent news