Data Mining

a.y. 2018-2019

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Dino Pedreschi

Computer Science Department, University of Pisa

Data Mining

Data Mining (12 CFU) – Code: 420AA

- DM I: Foundations of Data Mining (first semester)
- DM II: Advanced topics on Data Mining and case studies (Second semester)
- For students in Data Science & Business Informatics

Data Mining (9 CFU) Code: 309AA

For students in Computer Science

Data Mining (first semester)

Instructors

- Dino Pedreschi, <u>pedre@di.unipi.it</u>
- Anna Monreale, <u>anna.monreale@unipi.it</u>

Teaching assistant

Riccardo Guidotti, guidotti@di.unipi.it

Classes

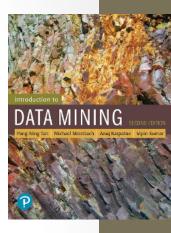
- Monday 14:00 16:00 Room C1
 Wednesday 14:00 16:00 Room C1
 Friday 11:00 13:00 Room A1
- NO Class for Students from Data Science & Business Informatics after mid of November
- After mid of November classes are dedicated to Computer Science Master Degree

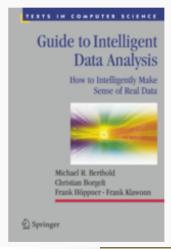
Data Mining

- Web Page
 - http://didawiki.di.unipi.it/doku.php/dm/dm.2017-18
- Learning Material
 - Textbook: Pang-Ning Tan, Michael Steinbach, Vipin Kumar Introduction to DATA MINING Addison Wesley, ISBN-13: 978-0-13-312890-1, 2018



- 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 analysys 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.
- Oral exam is not mandatory if your written exam is passed by the mid-tests

Mailing list

- Send as soon as possible a mail to anna.monreale@unipi.it with the following data:
 - subject: "DM"
 - text:
 - name
 - surname
 - student-id
- You will be included in a mailing list of urgent news