DAMI HT2023

Latest update 2023-04-25

Name: Data Mining in Computer and System Sciences

Unit: Systemanalysis and Security

Credits: 7.5hec

Level: Second cycle

Date: 2023-08-28 to 2023-10-29

Language of instruction: English

Prerequisites: 90 credits in Computer and Systems Sciences.

Aim

According to the course syllabus

After completing the course, the student is expected to:
- be able to use data mining techniques in order to analyse large data sets
- have knowledge of the basic concepts, techniques and algorithms in the field of data mining
- represent a data set in a form that will be useful for data mining
- evaluate the performance of different data mining algorithms
- be able to critically reflect on ethical and integrity aspects of data mining and its consequences for the individual and society.

Content

According to the course syllabus

Testing and evaluation, data representation, decision trees and rules, linear models, naive Bayes, lazy learning, combination of models, association rules and clustering.

Instruction

According to the course syllabus

The teaching and learning activities in the course are: lectures and lessons.
The language of instruction is English.

Examination

According to the course syllabus

The course is examined through a written examination task and assignments.

Literature

- Ethem Alpaydin: Introduction to Machine Learning (fourth edition), MIT Press, 2020, 978-0262043793

Contributors

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Courses

Data Mining in Computer and Systems Sciences, IB437C [compulsory] niva: Second cycle