

CAI: Cerca i Anàlisi de la Informació

Grau en Ciència i Enginyeria de Dades, UPC

Instructor

- ▶ Marta Arias
 - ▶ marias@cs.upc.edu
 - ▶ Omega 322, 93 413 7858
 - ▶ consultes a convenir per mail

Protocol Covid-19

- ▶ A cada sessió indicar seient mitjançant l'eina “SocAqui” del [Racó](#)
- ▶ Pausa de 10 minuts entre classes per ventilar
- ▶ Usar gel hidroalcohòlic abans de fer servir material de l'aula (pissarra, etc.)

Material

- ▶ <https://www.cs.upc.edu/~marias/cai.html>
- ▶ Announcements via the [Racó](#)
- ▶ Your solutions to be delivered through the [Racó](#)

Development

Theory:

- ▶ Instructor explains theory; slides are not fully self-contained
- ▶ For each topic, one set of problems to be solved *on your own*
- ▶ May use some lab session for problem solving

Lab:

- ▶ Scripts are mostly self-contained; will try to convert material into python notebooks, not done yet..
- ▶ Solve in pairs; part during lab, *part outside class*
- ▶ Hand report
- ▶ See detailed rules in scripts

Evaluation

- ▶ P: grade for “parcial” **take-home exam**
- ▶ F: grade for final exam
- ▶ L: average grade of lab reports

Final grade computed as:

$$20\%P + 40\%F + 40\%L$$

Contents

First half:

- ▶ Search/Analysis of Textual Information
- ▶ Search/Analysis of Linked Structures
- ▶ Aspects of the architecture of a Web Search System

Second half:

- ▶ Social Network Analysis
- ▶ Recommendation
- ▶ Some Algorithms for Big Data
- ▶ Issues in constructing real systems