# Introduction to Al

#### **INTRODUCTION**

Pedro Meseguer Institut d'Investigació en Intel·ligència Artificial (IIIA) Consejo Superior de Investigaciones Científicas (CSIC)

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## **Subject**

#### Introduction to Al

#### Goals:

- 1. To know the history of Al
- 2. To get acquainted with the main parts of Al
- 3. To realize about the ethical issues of AI in our society

### Approach:

- ▶ Non-technical, emphasis on concepts
- Prepearing for the technical issues in next courses

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Calendar			
14.09	History of Al (I)	16.11	P1 test
21.09	Search	23.11	Knowledge
28.09	Natural Language		Representation
5.10	History of Al (II)	30.11	Machine Learning
19.10	Robotics	7.12	Problems
26.10	Ethics		Knowledge Representation / Machine Learning
2.11	Problems search /	14.12	Presentations (I)
9.11	natural language Problems robotics /	21.12	Presentations (II)

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## Instructor — Books

presentation

#### Instructor:

Pedro Meseguer pedro@iiia.csic.es

Tutor time: arrange by email

#### **Books**

- Qué sabemos de... Inteligencia Artificial
   Ramon López de Mántaras, Pedro Meseguer, 2017, ed. Catarata
- Artificial Intelligence: A Modern Approach
   Russell, Norvig, Fouth edition, 2020, ed. Pearson

# **Teaching**

#### Class:

► Time: Wednesday, 15:00-17:00 (ten minutes before, 16:50)

▶ Place: room Q4/1003

#### Break (~15:50):

- ► Ten minutes
- ▶ Be strict!

#### Material:

Campus Virtual UAB

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### **Presentations**

A group: a pair of students (freely arranged)

A research paper is given to each group, which has:

- ► To perform an oral presentation on it (5-6 slides, 10 min)
- ► To write a summary (2-3 pages)
- Instructor will make questions to any student in class

### By p1 (mid November):

- ▶ Pairs are arranged (email them to me)
- ► Research papers → distribution among groups

## **Evaluation (I)**

Two written tests: p1 and p2 (individual)

A presentation on a research paper (groups of two)

Final mark formula:

```
[(p1 + p2)/2] * 0.6 + pres * 0.4
individual
evaluation
```

Thresholds:

 $p1 \ge 4.5$   $p2 \ge 4.5$  pres  $\ge 4.5$ 

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# **Evaluation (II)**

#### Final test:

- recuperation of p1 or p2
- summary of presentation (in case of previous fail)

### Special cases:

- ▶ No evaluable: nothing of p1, p2, pres, final test
- ► Fail:
  - ▶ according of mark formula
  - ▶ if ≥5 but thresholds not satisfied: final mark 4.5

Eventually: exercises proposed in class

### **Examination dates**

16.11.22 15:00-17:00 — p1 test

11.01.23 15:30-17:30 — p2 test

25.01.23 15:30-19:30 — final test

Questions?

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# **Students with Special Educational Needs**

### Must go to PIUNE:

- ► Apoyo a los estudiantes con Necesidades Educativas Específicas
- Service of UAB:
  - ► <u>fas.piune@uab.cat</u>
  - ► In Plaça Civica
- ▶ They assess students with special needs and contact instructors regarding extra requirements for them
  - ▶ Typically, on evaluation format (special test type, examination time...)