ARTIFICIAL INTELLIGENCE

Scalab

Grupo de Inteligencia Artificial (Scalab)
Departamento de Informática
Escuela Politécnica Superior

Universidad Carlos III de Madrid

General information

- Coordinator:
  - José Manuel Molina (molina@ia.uc3m.es)
- Teachers:
  - Theory: Daniel Borrajo (2.1B09, x9459, dborrajo@ia.uc3m.es)
  - Practices: Lara Quijano (laraquij@inst.uc3m.es) 89, Yolanda Escudero 88
- Web: Aula Global 2
- Office hours
  - In Aula Global 2
  - Send an email

Goals of the course

- Understand basic AI techniques
- Use those techniques in real tasks
- Analyze which one is best for each task

Contents

Relations with other courses

- Programming (1^{st} year)
- Statistics (2^{nd} year)
- Heuristics and Optimization (3^{rd} year)
- Computation
  - Neural networks (3^{rd} year)
  - Genetic and evolutive algorithms (3^{rd} year)
  - Knowledge Engineering (4^{th} year)
  - Machine Learning (4^{th} year)
  - Data Analysis (4^{th} year)
  - AI in entertainment (4^{th} year)
  - AI in organizations (4^{th} year)

Evaluation

- Theory (40%): final exam
- Homeworks (60%):
  - one/two exams (30% from the total)
  - final homework (30% from the total)
- No continuous evaluation activities beyond the final exam
- Extra-exam:
  max(extra-exam,0.4$\times$extra-exam+0.6$\times$homeworks)

References

Nils Nilsson
Artificial Intelligence. A new synthesis.
McGraw-Hill, 1998.

Elaine Rich and Kevin Knight
Artificial Intelligence.
McGraw-Hill, Inc., 1991.
Second edition

Stuart Russell & Peter Norvig
Artificial Intelligence: A Modern Approach
Prentice Hall, 1995