Introduction to the exercises

Intelligent Agents course

Us...

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Theoretical Exercises

- Main goal:
  - understand specific theoretical issues of the course
- To be done individually
- After the lecture: Wednesday from 15:15 to 16:00

Programming Exercises

- Pickup and Delivery Problem (PDP)
  - Constrained travelling salesman problem
  - Logistic application
- Simulation Environment based on RePast
  - Programmed in Java
  - Simulation toolkit for complex problems
  - Allows to build easily agent-based simulation models

Programming Exercises

- Groups:
  - 2 students (obligatory!) for programming exercises
  - theoretical exercises are individual!
- Zip files with skeletons for exercises will be available on moodle (e.g. rabbit.zip)
- Forming groups
  - Through moodle
  - Deadline: 30 Sep at 16:00

Exercise schedule

Description (key for file convention)	Deadline
First simulation in RePast (in)	1 Oct
Reactive Agent (ex1)	8 Oct
Deliberative Agent (ex2)	22 Oct
Centralized Coordination (ex3)	5 Nov
Decentralized Coordination (ex3)	24 Nov

Exercises grading

- The programming exercises are worth 40% of the final grade
  - performance tests (correctness and efficiency)
  - face-to-face discussions to make sure that **both** students have solved the exercise.
- Grade :
  - 50 points for the introductory exercise
  - 100 points for each of the main programming exercise

Exercises grading criteria

- Programming:
  - Implementation
    - Correct, Efficient and Stable
    - Condition sine qua non : No passing grade if the program is not functioning.
  - Documentation
    - 3 pages limit
    - Use provided template (**do not modify**)
  - Presentation (Discussion and questions, no slides required)

Miscellaneous

- Submitting solutions
  - EXCLUSIVELY through the Moodle site (NO email !)
    - one member submits for the group
  - one zip file
    - src/ - sources and compiled sources
    - doc/ - any documentation including report (pdf)
    - follow the name and path conventions for each exercise
    - do not remove files provided within the skeleton package
  - **Deadlines are strict** !
  - Name convention for the zip file: lastname1-lastname2-key.zip
    - e.g. mi-danassis-ex1.zip
- Presentation after each submission deadline.