

IMAS

Second Activity 2013-2014

Topic: analysis of the cooperation mechanisms between agents

In this activity, the groups must study the theoretical concepts described in the lectures about cooperation mechanisms between agents and apply these concepts to the practical exercise of the MAS course.

- Each group has to analyze the different cooperation mechanisms that the practical exercise may present based on the lectures given, including voting, auctions, coalition's formation, etc.
- Determine the advantages / disadvantages that each different cooperation mechanism could entail. Consider the architectures defined in the first activity.
- Once the different cooperation mechanisms have been analyzed for each agent, justify the chosen mechanism for the coordination of the agents.
- Explain detailed as possible the application of the chosen mechanism for each agent depending on the task to fulfill. For example, the harvesters may apply different mechanisms in order to collect the city's garbage.

In summary, the following aspects will be evaluated in this activity:

- Written report detailing the study and analysis of the cooperative mechanisms to apply in the MAS practical exercise.
- Oral presentation (preferably in English, 15-20 minutes)

The deadline to send the written report to the lab assistant is November 12 (Tuesday) via email. Next day (November 13), each group has to present orally the developed work (the lab assistant will choose a person of each group to make the presentation).