Evaluation

The evaluation of the project for the first phase of the CoCoMa course will have the form of two sessions in which all students or teams of students should:

- present their work;
- present the results for both phases;
- draw some comparative conclusions concerning the two approaches.

The presentations should include some suggestive simulation examples and the students should be able to explain what happens in them. The students may choose to run, or not, a demo, but if they choose not to do it they should be able to offer a demo too, if asked to (if, for example, the examples in the slides are not suggestive enough and better explanations are needed). The time allocated for each student or team is between 15 and 18 minutes and the students should avoid exceeding this time limit.

The evaluation will be made considering the following criteria and associated maximum number of points (also mentioned in the description of the two project phases):

Phase 1:

- implementation according to the suggested approach;   (6p)
- results & analysis with respect to :
    1. the number of ants ;   (1p)
    2. the number of iterations (to transport all the available food);   (1p)
    3. the quantity of food transported.   (1p)

Phase 2:

- implementation (coordination + multiple food locations);   (6p)
- results & analysis with respect to the same aspects as for Phase 1.   (2p)

Overall:

- starting point (offered)   (1p)
- comparison of the two approaches, based on the obtained results.   (2p)
- outstanding projects can also receive extra points.

For the students who didn't finish the implementation for the first phase, the rule with 20% less applies, but only for the part of the project related to the implementation for this phase (as no one did the analysis part yet, we won't apply this rule for the 3p associated to it, so all the students can still receive the maximum number of points for the analysis part of Phase 1). However, there is still the possibility to gain the points lost, by having an overall outstanding project.

In order to avoid extra – delays all the students / teams will use a machine on which they already tested their implementations, as all the students agreed with this in advance (during the TD of October 7, 2014).

The room in which the presentations will take place is the same one in which the courses were held.

Report

The students / teams should write a report (accompanying the presentation), in which:

- they describe their work;
- they describe some representative simulations that were run (including the parameters used);
- they present the results and the analysis of the simulations, for each approach (pheromone based & coordination based);
- they include the comparative study of the two approaches, based on the results obtained.

The report should have between 2 and 4 pages and it is supposed to summarize the content of the presentations.

Source code

The source code of the projects, for both phases, together with a short description of how to use it, should be packed into one archive with the name "FirstName1_FirstName2_CoCoMa2014" and sent to the e-mail addresses:

amal.elfallah@lip6.fr & marius-tudor.benea@lip6.fr

before the presentation starts.

Good luck! ☺