Computer-Aided Design of Integrated Circuits: Deliverables

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For this project you are asked to submit a report and your code. A submission should be done by group of two or three students before Friday 4th December. The file $Name_1$_$Name_2$.zip, containing your report (in pdf) and your files, has to be sent to my e-mail address.

1 Code

The code you submit should not contain any error preventing its execution. If you do have bugs, please mention it in the report. Also, since your code will be automatically tested by scripts, it is important that your main function uses the signature:

$$[it,population]=myGA(f,V,M,lb,ub)$$

with the conventions used during the exercise sessions.

2 Report

The final report that you submit should follow a few guide lines. It should :

- Be 5 pages maximum (excl. cover and table of contents).

- Have a cover page with your names.

- Contain a structured table of contents.

- Explain the algorithms that you implemented: initialize population (random, pseudo-random), tournament selection, recombination and mutation mechanisms, crop population, etc.

- Show graphs explaining the choice for some chosen parameters such as N, P, NP, NC, $\sigma_{mutation}$.

- Present the final results of your optimization for a differential pair (two if you have time).

- Contain tables with the values of the parameters for the different problems (ZDT6, differential pairs).

- Contain a bibliography citing your sources.

More generally, during the writing of your report, try to use figures and formulas explaining your algorithms instead of writing long texts. Also, instead of copy-pasting pieces of code, prefer the use of high-level algorithms.

Best of luck!