Homework 3 - Guide for Writing Your Memo & Deliverables

Memo

Since this homework assignment will have more results to show, you can extend the length of your memo, up to 4 pages.

Your memo must include three sections:

1. Background - Describe the problem, tasks and approaches in **your own words,** not equations. And use correct kinds of sentences. Writing in Chinese is OK.
2. Results - Here you only report your results by numbers, figures, tables, etc. Then report them by **your own words**.
    a. What is the best design configuration in terms of best MA?
    b. What is the best design configuration in terms of best average MA?
    c. Performance indexes (number of iteration needed or cpu time) of the three search methods.
3. Discussion & Conclusion - This section is where your professional comments should go. Key things to discuss are:
    a. Compare and discuss the designs you obtained in 2a and 2b.
    b. Compare the computing efficiency of the three search methods. What's the main factor(s) to cause the differences? What are the advantages and disadvantages of these methods.

Test your search functions

A function m-file, named "search_func_test.m" is provided on the Moodle site for you to test your search functions. To use it simply put it in the same folder where your search function m-file is in and type (using gs_max function as an example):

[xmax, ymax] = gs_max(search_func_test, ub, lb, tolerance, delta)

The other input arguments (ub, lb, tolerance and delta) and the correct solution will be provided in the code.

Deliverables

1. Memo (up to 4 pages), named as **<your student id>.doc** or **docx** or **pdf**. The memo must contain the required sections and a list of attached files.
2. cutter_ma.m
3. cutter_avg_ma.m
4. cutter_analysis.m
5. ei_max.m
6. aei_max.m
7. Gs_max.m

Name your files as required.