EE6222: Assignment 1 (Option 2)

Thinning / Skeletonization

You need to threshold the given images to obtain binary images. Different threshold levels may be needed for different images. You can also implement an adaptive thresholding method.

Then, you need to use the 2-step thinning algorithm. Your written report should explain the thresholding process, thinning algorithm and include the final / intermediate results. You need to comment on the quality of results.

You need to prepare a written report presenting the algorithms as well as your conclusions based on the experimental results and upload it via NTUlearn subject website. Your report will be subjected to plagiarism checking. You need to upload either pdf or word file.

Submission deadline is on Monday in Week 13 (8th November)

Optional Extension: If you've time, you can consider investigating the medial axis transformation-based thinning method and comparing the results.

You can make use of public domain codes, or you can write your own codes. You need to include your codes in the report.