



HW1

Threshold and Noise Reduction



Task Description

Threshold

- Dataset: [Data](#)
- Two Local methods
- Two Global methods **excluding maximum likelihood**

Noise reduction in color image

- Dataset: [Noise Lena Image](#)
- Two methods (such as RGB to HSV, Joint processing, vector filtering, ... etc.)

Task Description

Threshold

Original Image



Global thresholding



Local thresholding



Task Description

Noise reduction

Original Image



HSV



Joint



Report Format and Regulations

Report

- Method description
- Core code
- Result
- 2024/10/23 23:59 (UTC+8) Upload to NCUE Cloud Server
- 遲交分數會打折，每隔一天打8折，遲交3天以0分計算

Regulations

- 關鍵程式碼不能直接呼叫opencv完成，如cv2.GaussianBlur、cv2.threshold等
- 請自己完成作業，勿分享code與參數
- 抄襲同學(含被抄襲者)皆為0分