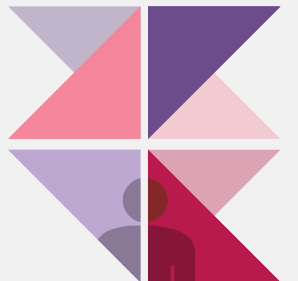


# **HW2**

## **Edge Detection and Morphology**



# Task Description

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## Edge detection

- Dataset: [Data](#)
- Sobel and Prewitt
- Canny

## Morphology

- Dataset: [Binary Image](#)
- Four methods (erosion, dilation, opening, and closing)

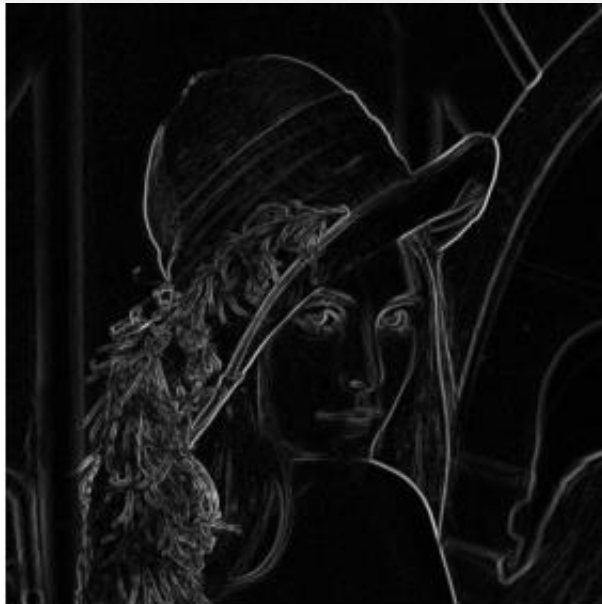
# Task Description

## Edge detection

Original Image



Sobel



Prewitt



Canny



# Task Description

## Morphology

Original Image

Erosion

Dilation

Opening

Closing



# Report Format and Regulations

## Report

### ➤ Report

- Method description
- Core code and Environment (including necessary libraries, version, etc.)
- Result
- **Word** 或 **PDF** (至少**4**頁標楷體大小為**12**，單行間距，左右對齊，字數至少**800**字(**不算code**))

### ➤ Program code

- 2025/11/19 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.dilate**、**cv2.erode**、**cv2.Sobel**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**