

HOMEWORK ASSIGNMENT #2

Edge Detection and Geometrical Modification

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April 1, 2021

1 Problem 1: EDGE DETECTION

In this problem, please design several edge detection algorithms to satisfy the following requirements.

Original image **sample1.jpg** for question (a).

1.1 (a)

Given an image, **sample1.jpg**.

1.1.1 (1)

Perform 1st order edge detection and output the edge maps as **sample1.jpg**.

Motivation Use non-parametric approaches to conduct edge detection. We could follow the steps of discrete case orthogonal gradient in *Lec 3 page 12 – 17*.

Approach

1. To-do.

Performance of results



Figure 1: sample1.jpg

Discussion

1.2 (b)

Motivation

Approach

Performance of results

Discussion