

산업 컴퓨터 비전 실제

프로그래밍 과제 #2

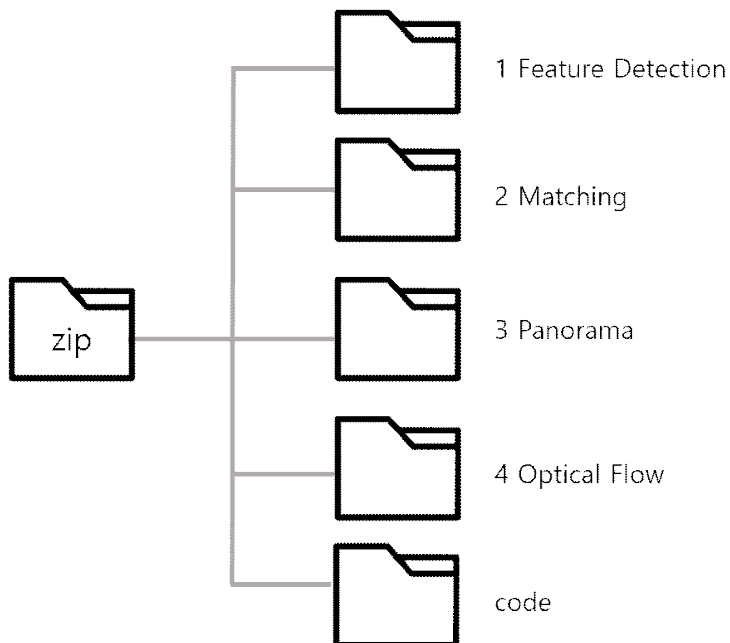
2021254015 봉은정

목차

1. zip파일 구성
 - 1.1) 폴더 구성
2. 실행 결과
 - 2.1) 코드 실행 결과

본문

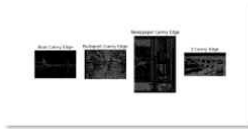
1. zip파일 구성
 - 1.1) 폴더 구성
 - 1~4 폴더 : 각 코드의 실행 결과 파일이 있습니다.
각 이미지 파일 이름은 주제와 맞게 설정해놓았으니 확인 부탁드립니다.
 - code 폴더 : 각 코드.py 파일 포함



2. 실행 결과

2.1) 코드 실행 결과

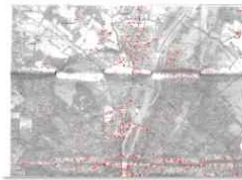
1. Feature Detection



cannyedge.jpg



harriscorner_boat.jpg



harriscorner_budapest.jpg



harriscorner_newspaper.jpg



harriscorner_s.jpg

2. Matching

- boat



ORB_Detector_KeyPoints1.jpg



ORB_Detector_KeyPoints2.jpg



ORB_Detector_match.jpg



ORB_img_warping.jpg



SIFT_Detector_KeyPoints1.jpg



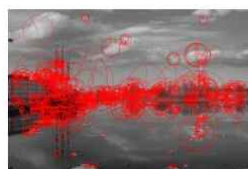
SIFT_Detector_KeyPoints2.jpg



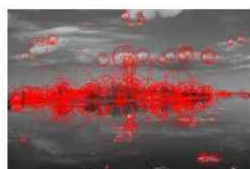
SIFT_Detector_match.jpg



SIFT_img warping.jpg



SURF_Detector_KeyPoints1.jpg



SURF_Detector_KeyPoints2.jpg

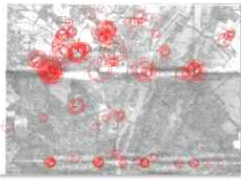


SURF_Detector_match.jpg

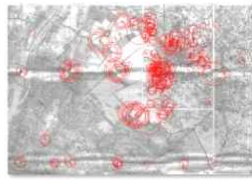


SURF_img warping.jpg

- budapest



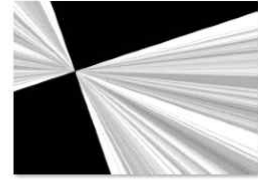
ORB_Detector_KeyPoints1.jpg



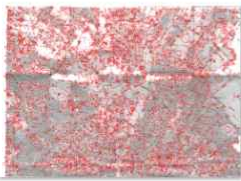
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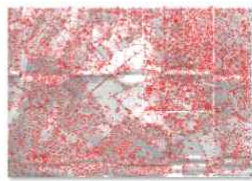
ORB_Detector_match.jpg



ORB_img_warping.jpg



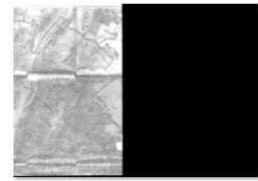
SIFT_Detector_KeyPoints1.jpg



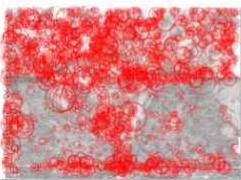
SIFT_Detector_KeyPoints2.jpg



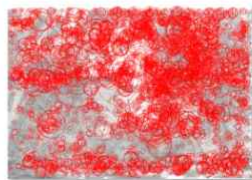
SIFT_Detector_match.jpg



SIFT_img_warping.jpg



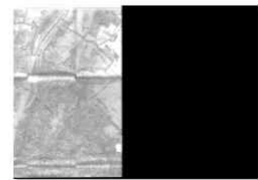
SURF_Detector_KeyPoints1.jpg



SURF_Detector_KeyPoints2.jpg



SURF_Detector_match.jpg



SURF_img_warping.jpg

- S



ORB_Detector_KeyPoints1.jpg



ORB_Detector_KeyPoints2.jpg



ORB_Detector_match.jpg



ORB_img_warping.jpg



SIFT_Detector_KeyPoints1.jpg



SIFT_Detector_KeyPoints2.jpg



SIFT_Detector_match.jpg



SIFT_img_warping.jpg



SURF_Detector_KeyPoints1.jpg



SURF_Detector_KeyPoints2.jpg



SURF_Detector_match.jpg



SURF_img_warping.jpg

3. Panorama



boat.jpg



budapest.jpg



newspaper.jpg



s.jpg

4. Optical Flow - Pyramid Lucas-Kanade



corner1.jpg



corner2.jpg



optical_flow.jpg

5. Optical Flow - Farneback, DualTVL1



DualTVL1_optical_flow.jpg



DualTVL1_optical_flow_magnitu



Farneback_optical_flow.jpg



Farneback_optical_flow.png