第二次作业

2101210612 楼锦程

代码

```
import cv2
import numpy as np
import random
def white_balance_1(img):
   第一种简单的求均值白平衡法
   :param img: cv2.imread读取的图片数据
   :return: 返回的白平衡结果图片数据
   # 读取图像
   r, g, b = cv2.split(img)
   r_avg = cv2.mean(r)[0]
   g avg = cv2.mean(g)[0]
   b_avg = cv2.mean(b)[0]
   # 求各个通道所占增益
   k = (r_avg + g_avg + b_avg) / 3
   kr = k / r_avg
   kg = k / g_avg
   kb = k / b avg
   r = cv2.addWeighted(src1=r, alpha=kr, src2=0, beta=0, gamma=0)
   g = cv2.addWeighted(src1=g, alpha=kg, src2=0, beta=0, gamma=0)
   b = cv2.addWeighted(src1=b, alpha=kb, src2=0, beta=0, gamma=0)
   balance_img = cv2.merge([b, g, r])
   return balance img
1.1.1
img: 原图
img1:均值白平衡法
1.1.1
img = cv2.imread('/Users/nikolas_loujc/Documents/^
人/study_work/rw_course/second_sem/cv_ar/hw2/blue.jpeg')
img1 = white_balance_1(img)
cv2.imshow('origin',img)
cv2.imshow('result',img1)
cv2.waitKey(0)
```

结果

