

Deteksi Fitur SIFT

kubernetes

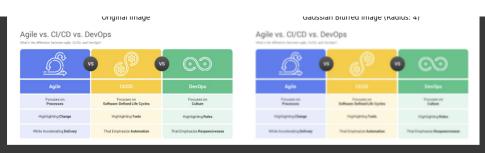
kubernetes

Upload (1) SIFT Features Detected

₹ Original Image Histogram of the Image ò Pixel Value

Gaussian Smoothing

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### Or PR Import Image, Imaged litter
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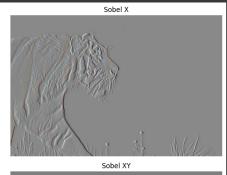
Edge detection with Sobel

```
[19] import cv2
import matplotlib.pyplot as plt
import ipywidgets as widgets
from IPython.display import display
                    # Membuat file picker
uploader - widgets.FileUpload(accept='image/*', multiple=False)
display(uploader)
                               fit uploader.value:
    file_data = list(uploader.value.values())[0]
    content = file_data['content']
                                      # Membaca gambar dari file yang diunggah
with open("uploaded_image.jpg", "wb") as f:
f.write(content)
                                      # Membaca gambar menggunakan OpenCV
img = cv2.imread("uploaded_image.jpg")
img_rgb = cv2.cvtColor(img, cv2.CoLOR_BGR2RGB) # Konversi ke RGB untuk matplotlib
                                      # Blur untuk deteksi tepi yang lebih baik img_blur = cv2.GaussianBlur(img, (3, 3), 0)
                                      # Sobel Edge Detection
sobelx = cv2.Sobel(src-ing_blur, ddepth-cv2.CV_64F, dx=1, dy=0, ksize=5) # Sobel X
sobely = cv2.Sobel(src-ing_blur, ddepth-cv2.CV_64F, dx=0, dy=1, ksize=5) # Sobel Y
sobelxy = cv2.Sobel(src-ing_blur, ddepth-cv2.CV_64F, dx=1, dy=1, ksize=5) # Sobel XY
                                      # Normalisasi hasil Sobel ke rentang [0, 255]
sobelx_norm = cv2.normalize(sobelx, None, 0, 255, cv2.NORM_MINMAX).astype('uint8')
sobely_norm = cv2.normalize(sobely_none, 0, 255, cv2.NORM_MINMAX).astype('uint8')
sobelxy_norm = cv2.normalize(sobelxy, None, 0, 255, cv2.NORM_MINMAX).astype('uint8')
                                      # Menampilkan hasil
plt.figure(figsize=(15, 8))
                                      # Gambar asil
plt.subplot(2, 2, 1)
plt.imshow(img_rgb)
plt.title("Original Image")
plt.axis('off')
                                      plt.subplot(2, 2, 2)
plt.imshow(sobelx_norm, cmap='gray')
plt.title("Sobel X")
plt.axis('off')
                                      plt.subplot(2, 2, 3)
plt.inshow(sobely_norm, cmap='gray')
plt.title("Sobel Y")
plt.axis('off')
                                      # Sobel XY
plt.subplot(2, 2, 4)
plt.inshow(sobelxy_norm, cmap='gray')
plt.title("Sobel XY")
plt.axis('off')
                                      # Tampilkan semua gambar
plt.tight_layout()
plt.show()
                   # Memproses file setelah diunggah uploader.observe(process_file, names='value')
```

...







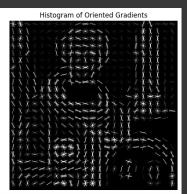


Histogram of Oriented Gradients (HOG)

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Upload (1)





Produk berbayar Colab - Batalkan kontrak di sini