

# Visualize\_Results\_Mydata

June 24, 2018

```
In [8]: import numpy
import cv2
import matplotlib.pyplot as plt
import numpy as np
import os
from glob import glob

In [9]: images = glob('/densepose_mydata/test_imgs/*.jpg')

In [10]: all_data = []
for im in images:
    im_dict = {}
    im_dict['im'] = im
    im_dict['IUV'] = os.path.join('/densepose_mydata/infer_out', os.path.basename(im))
    im_dict['INDS'] = os.path.join('/densepose_mydata/infer_out', os.path.basename(im))
    all_data.append(im_dict)

In [11]: n = 0

im = cv2.imread(all_data[n]['im'])
IUV = cv2.imread(all_data[n]['IUV'])
INDS = cv2.imread(all_data[n]['INDS'], 0)

[[0 0 0 ... 0 0 0]
 [0 0 0 ... 0 0 0]
 [0 0 0 ... 0 0 0]
 ...
 [0 0 0 ... 0 0 0]
 [0 0 0 ... 0 0 0]
 [0 0 0 ... 0 0 0]]
```

Visualize the I, U and V images.

```
In [12]: fig = plt.figure(figsize=[15,15])
plt.imshow( np.hstack((IUV[:, :, 0]/24. , IUV[:, :, 1]/256. , IUV[:, :, 2]/256.)) )
plt.title('I, U and V images.')
plt.axis('off') ; plt.show()
```

I, U and V images.



Visualize the isocontours of the UV fields.

```
In [13]: fig = plt.figure(figsize=[12,12])
plt.imshow( im[:, :, :-1] )
plt.contour( IUUV[:, :, 1]/256., 10, linewidths = 1 )
plt.contour( IUUV[:, :, 2]/256., 10, linewidths = 1 )
plt.axis('off') ; plt.show()
```



Visualize the human-body FG mask indices.

```
In [14]: fig = plt.figure(figsize=[12,12])
plt.imshow( im[:, :, :-1] )
plt.contour( INDS, linewidths = 4 )
plt.axis('off') ; plt.show()
```

