counter

June 28, 2021

[1]:
```
import cv2
import numpy as np
import matplotlib.pyplot as plt
%matplotlib inline
```

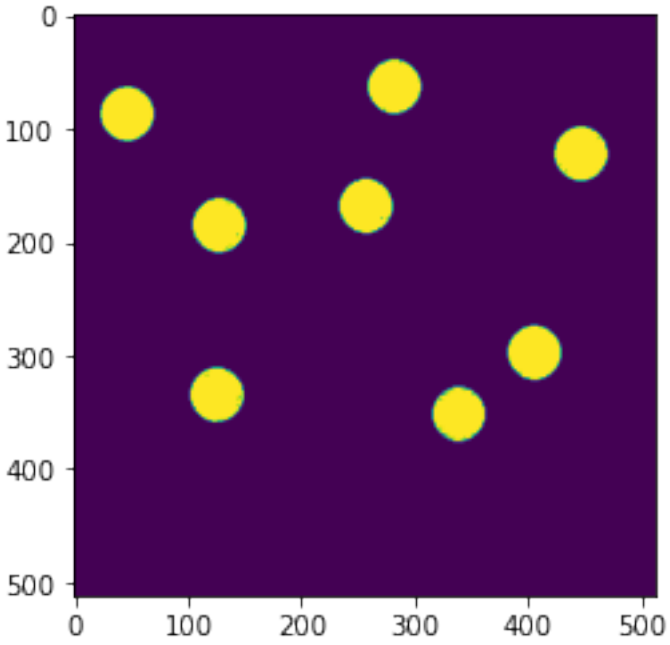
[2]:
```
def getObjects(path):

    # Importing the image and preprocessing the image
    img = cv2.imread(path)
    img = cv2.cvtColor(img, cv2.COLOR_BGR2GRAY)
    img = cv2.resize(img, (512,512))

    # Updating the pixels which have a value greater than the minimum with 255␣
↪and the others with 0.\
    # Essentially, making a binary representation of the image.
    _, thresh = cv2.threshold(img, np.min(img)+10, 255, cv2.THRESH_BINARY_INV)

    # Locating the continuous closed regions where there is positive gradient␣
↪across the normal.
    contours, hierarchy = cv2.findContours(thresh, cv2.RETR_EXTERNAL, cv2.
↪CHAIN_APPROX_SIMPLE)

    objects = str(len(contours))

    return thresh, int(objects)
```

0.1 Processing Image 1

[3]:
```
thresh, objects = getObjects('Image-1.jpg')
```

[4]:
```
plt.imshow(thresh)
```

[4]:
```
<matplotlib.image.AxesImage at 0x7f9ece417520>
```



[5]:
```
print("Number of objects = ", objects)
```

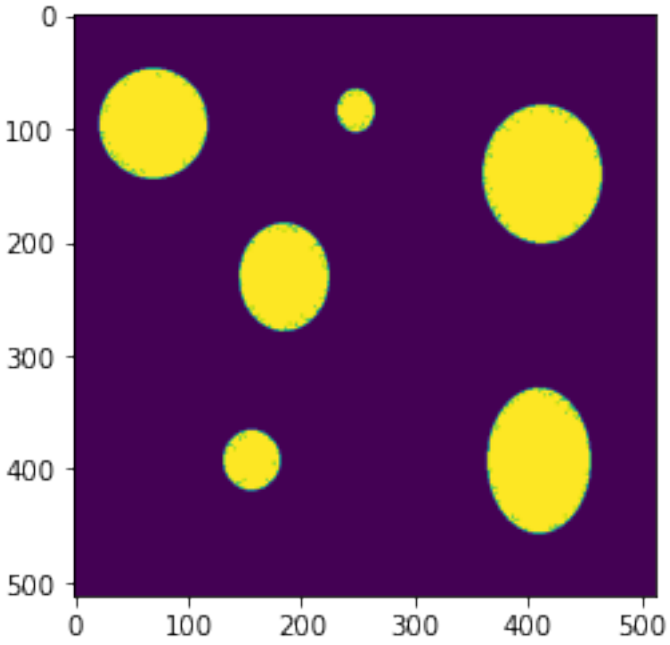
```
Number of objects =  8
```

0.2 Processing Image 2

[6]:
```
thresh, objects = getObjects('Image-2.jpg')
```

[7]:
```
plt.imshow(thresh)
```

[7]: <matplotlib.image.AxesImage at 0x7f9ece307a30>



[8]:
```
print("Number of objects = ", objects)
```

```
Number of objects =  6
```

[ ]:
```

```