16/05/2022, 11:38 blob

In [4]:

```
import cv2
import numpy as np
import matplotlib.pyplot as plt
#Load image
image = cv2.imread('/Users/mehradhq/Computer Vision/Research 2/dataset/train/Prohibition Signs/11.jpeg', 0)
# Set our filtering parameters
# Initialize parameter setting using cv2.SimpleBlobDetector
params = cv2.SimpleBlobDetector Params()
# Set Area filtering parameters
params.filterByArea = True
params.minArea = 100
# Set Circularity filtering parameters
params.filterByCircularity = True
params.minCircularity = 0.85
# Set Convexity filtering parameters
params.filterByConvexity = True
params.minConvexity = 0.7
# Set inertia filtering parameters
params.filterByInertia = True
params.minInertiaRatio = 0.6
# Create a detector with the parameters
detector = cv2.SimpleBlobDetector create(params)
# Detect blobs
keypoints = detector.detect(image)
# Draw blobs on our image as red circles
blank = np.zeros((1, 1))
blobs = cv2.drawKeypoints(image, keypoints, blank, (0, 0, 255),
               cv2.DRAW MATCHES FLAGS DRAW RICH KEYPOINTS)
number of blobs = len(keypoints)
print (number of blobs)
# Show blobs
display(blobs)
```

4

16/05/2022, 11:38 blob



def display(img1,cmap="gray"):
 fig=plt.figure(figsize=(12,18))
 ax=fig.add_subplot()
 ax.imshow(img1,cmap="gray")