Intersection over Union

$$IoU = \frac{Area\ of\ Overlap}{Area\ of\ Union}$$

Ground truth



(4,271),(4,384),(61,271),(61,384)

TensorFlow object detection API (SSD_RESNET50)



(8,269),(8,381),(54,269),(54,381)

$$\frac{5060}{6533} = 0.77$$

Correlation filter and minimum output sum of squared error



(13,252),(13,404),(63,252),(63,404)

$$\frac{5424}{8617} = 0.63$$