

# Improving Object Detection with Dual Mask R-CNN



Students: Yunheng Liu, Jinnan Yan

Advisor: Dr. Tam V. Nguyen

## Introduction



Cutting-edge technologies like Mask R-CNN work in specific regions in images, therefore, some image regions are usually ignored one object is covered partially by the other. In our project, we improve the performance of object detection through a dual mechanism. In particular, our proposed framework removes the already-detected objects in the original image, then perform the detection process once again to force the attention to the ignorable regions. The final results are obtained by merging the two sets of detection results.

## The Proposed Framework

