A Survey of Deep Learning-based Object Detection

Computer vision is a scientific field that concentrates on interpreting and understanding the visual world using images or videos. Images or videos are made of objects. Image classification is usually the straightforward application of computer vision but identifying each object in the image unravels so many endless possibilities. Pedestrian detection, theft detection, suspicious activity detection, automatic search results, and so on.
With the rapid increase of deep learning object detection has greatly improved.

To fully understand and compare the various state of the art object detection, in this survey I will be analyzing the methods of typical object detection pipeline and describe benchmark datasets.

We will be discussing types of object detection models like one stage detectors and two-stage detectors. We will also be giving a brief introduction to some hyperparameters used in the detection. There are many state-of-art detection techniques, which we will be discussing. There are open-source datasets available for researchers, in this survey, I aim to provide a quick introduction to those datasets.