A Review: Object Detection using Deep Learning

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Abstract

Identifying and detecting the different objects in an image is an important skill in computer vision. Fast and reliable object detection is a significant approach for interacting with one’s environment. Human uses a process called visual attention to quickly decide which location of an image needs to be processed in detail and which can be ignored. But for the machine, it is a difficult task to identify objects and their exact location in an image. To overcome this difficulty, machine learning and deep learning have made great progress with the help of algorithm series based on R-CNN. These algorithm series have given amazing results with the help of some well-known datasets like Image-Net, Pascal voc, coco, etc.

References

2. Ross Girshick, Jeff Donahue, Trevor Darrell, Jitendra Malik, “Rich feature hierarchies for


Index Terms

Computer Science Information Sciences

Keywords

Deep learning, Neural Network, dataset, faster Region with Convolutional neural network, ROI, RPN