

PhD

Scalable Object Detection Using Deep Neural Networks cvpr14

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Deep multi box

Generates a large number of class agnostic bounding boxes, each with the confidence score up containing any object of interest;

these have to be combined with a classifier to get an object detector;

Since the number of generated boxes is much more than the ground truth boxes, it uses an assignment method to assign some of these predictions to ground truth boxes and then maximizes the localization objective with respect to only these predictions while minimizing the confidence of the remaining predictions;

assignment algorithm is similar to bipartite matching;