

PhD

LSDA Large scale detection through adaptation nips14 ax14_11

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Trains a detector for categories without labeled bounding boxes using weights learned from those with labeled and and bounding boxes

Transforms a pre-trained classification network into a detection network by adding 2 layers – one each for categories with and without labelled bounding boxes;

finds the nearest neighbours for each unlabelled category among the labelled categories by comparing the weights of the corresponding final classification layers;

Computes the average change in weights between the classification and the new detection layer of these nearest neighbour labelled categories and adds it to the classification layer weights of the corresponding unlabelled category to obtain its detection weights

There is no bounding box regression being learned so it still depends on the region proposals to actually get its localization done