SILCO: Show a Few Images, Localize the Common Object

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1 Summary

The author proposes a novel method for few shots learning for localization problem. The problem is proposed as few-shot common localization problem. From a few weakily-supervised support images which has not bounding box and the common objects are scarce, the model was able to localize the common object in the query image by using spatial similarity module and a feature re-weighting module employees graph convolutional network to balance the influence of different support images. The model was able to robustly localize the common objects from few examples from datasets like MSCOCO, VOC-07, VOC-12 and ImageNet VID dataset, outperforming baselines from related fields.