

Supplementary Material for iFS-RCNN: An Incremental Few-shot Instance Segementer

1. Comparison to Prior Work on COCO with AP for Object Detection and Instance Segmentation

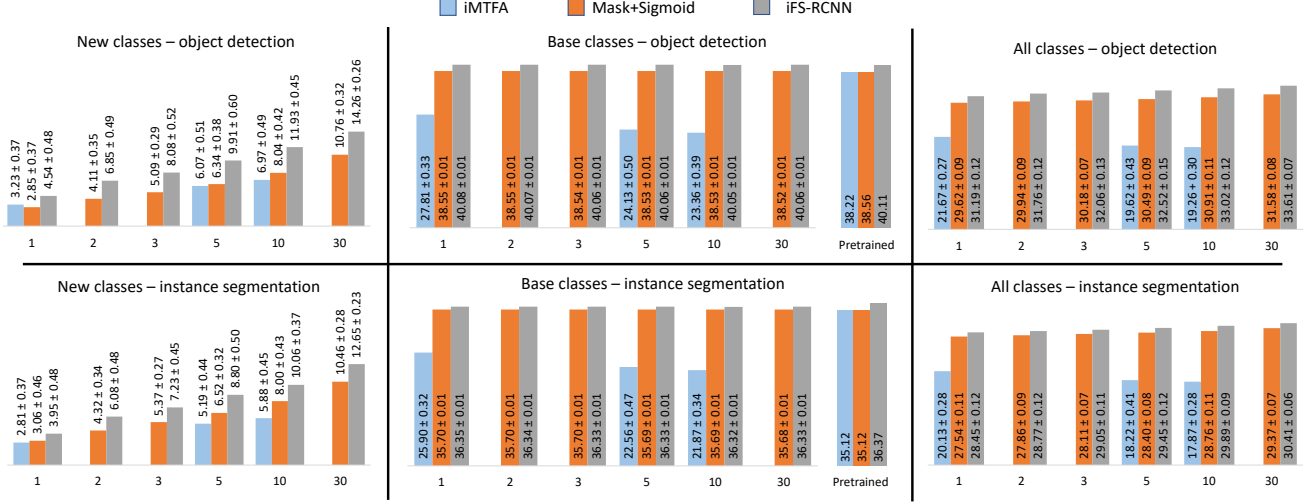


Figure 1. Average AP metric with 95% confidence interval over 10 runs on iFSIS task. $K = \{1, 2, 3, 5, 10, 30\}$ are the number of few-shot examples used in the fine-tuning stage. Our baseline Mask+Sigmoid outperforms the state-of-the-art approach iMTFA in almost all metrics with significant margins (except the object detection with one shot on the new classes). Our final approach iFS-RCNN even further improves that performance of Mask+Sigmoid. In base classes results, our baseline and our iFS-RCNN almost keep the performance of the pretrained models. This justifies the superior performance of sigmoid over softmax activation function for iFSOD and iFSIS.

2. Comparison to Prior Work on COCO with AP50 for Object Detection and Instance Segmentation

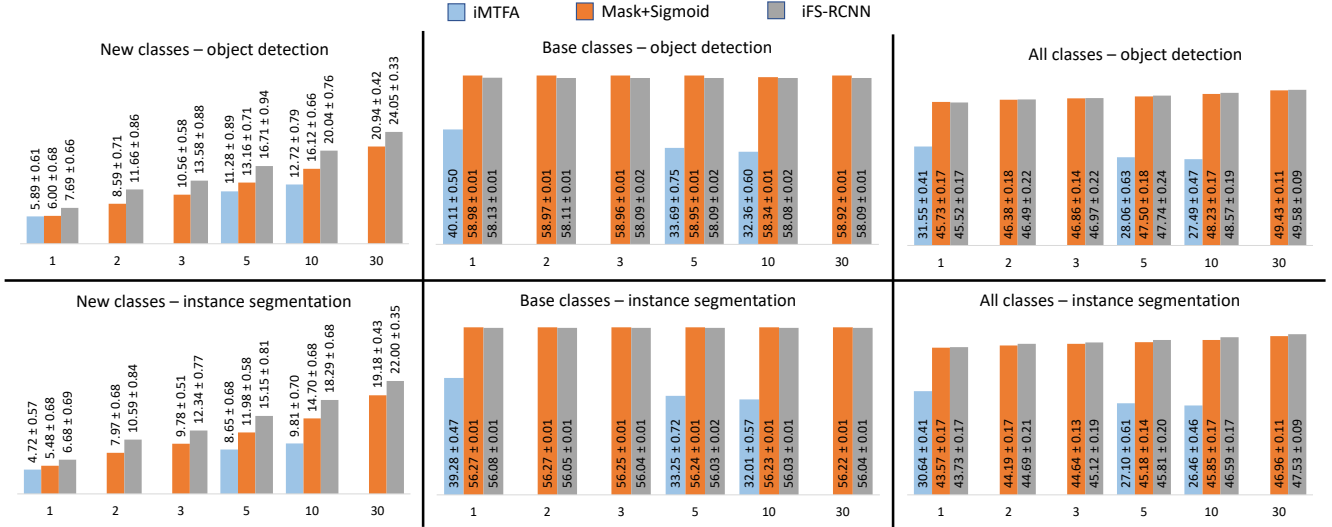


Figure 2. Average AP50 metric with 95% confidence interval over 10 runs on iFSIS task. $K = \{1, 2, 3, 5, 10, 30\}$ are the number of few-shot examples used in the fine-tuning stage. The same trend can be observed as in the AP metric. See the caption of Fig. 1