

Faster R-CNN: Towards Real-Time Object Detection with Region Proposal Networks

1 Citation

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2 Abstract

Fast R-CNN and SPPNet have made object detection fast, but now the bottleneck is the proposal of regions. We speed it up by making a region proposal network (RPN) that shares its convolutional layers with the detection network. We get state of the art on PASCAL VOC (70.4% mAP) at 5 frames per second.

3 Introduction