

# AN IMAGE-CLASSIFICATION LEVERAGED OBJECT DETECTOR

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## ABSTRACT

Currently, the state-of-the-art image classification algorithms outperform the best available object detector by a big margin in terms of average precision. We therefore propose a simple yet principled approach to leverage object detection through image classification on supporting regions specified by a preliminary object detector. Using a simple bag-of-words model based image classification algorithm, we leverage the performance of the deformable model objector by 5% in average precision, leading to a best known results on the standard PASCAL 2007 dataset.