

METHOD AND SYSTEM FOR EVALUATING AN OBJECT DETECTION MODEL

ABSTRACT

A method for evaluating performance of an object detection model includes generating a predicted bounding box representing an object based on the object detection model. The object is positioned proximate to one or more adjacent objects. The method also includes determining an area of intersection between the predicted bounding box and a groundtruth bounding box of the object, and determining a modified area of union between the predicted bounding box and the groundtruth bounding box of the object. Determining the modified area of union includes determining a weighted area of union between the predicted and groundtruth bounding boxes based on one or more weights, and adding to the weighted area of union an area of intersection between the predicted bounding box and at least one groundtruth bounding box of the one or more adjacent objects. The method further includes determining a score equal to the area of intersection between the predicted bounding box and the groundtruth bounding box of the object divided by the modified area of union. The score represents the performance of the object detection model.

FIG. 1