TancarFlow

TensorFlow API r1.4

tf.image.non_max_suppression

```
non_max_suppression(
   boxes,
   scores,
   max_output_size,
   iou_threshold=0.5,
   name=None
)
```

Defined in tensorflow/python/ops/image_ops_impl.py.

See the guide: Images > Working with Bounding Boxes

Greedily selects a subset of bounding boxes in descending order of score.

Prunes away boxes that have high intersection-over-union (IOU) overlap with previously selected boxes. Bounding boxes are supplied as [y1, x1, y2, x2], where (y1, x1) and (y2, x2) are the coordinates of any diagonal pair of box corners and the coordinates can be provided as normalized (i.e., lying in the interval [0, 1]) or absolute. Note that this algorithm is agnostic to where the origin is in the coordinate system. Note that this algorithm is invariant to orthogonal transformations and translations of the coordinate system; thus translating or reflections of the coordinate system result in the same boxes being selected by the algorithm. The output of this operation is a set of integers indexing into the input collection of bounding boxes representing the selected boxes. The bounding box coordinates corresponding to the selected indices can then be obtained using the **tf.gather operation**. For example: selected_indices = tf.image.non_max_suppression(boxes, scores, max_output_size, iou_threshold) selected_boxes = tf.gather(boxes, selected_indices)

Args:

- boxes: A 2-D float Tensor of shape [num_boxes, 4].
- scores: A 1-D float Tensor of shape [num_boxes] representing a single score corresponding to each box (each row of boxes).
- max_output_size: A scalar integer Tensor representing the maximum number of boxes to be selected by non max suppression.
- iou_threshold: A float representing the threshold for deciding whether boxes overlap too much with respect to IOU.
- name: A name for the operation (optional).

Returns:

selected_indices: A 1-D integer Tensor of shape [M] representing the selected indices from the boxes tensor,
 where M <= max_output_size.

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