TancarFlow

TensorFlow API r1.4

tf.contrib.gan.losses.wargs.modified_generator_loss

```
modified_generator_loss(
    discriminator_gen_outputs,
    label_smoothing=0.0,
    weights=1.0,
    scope='generator_modified_loss',
    loss_collection=tf.GraphKeys.LOSSES,
    reduction=losses.Reduction.SUM_BY_NONZERO_WEIGHTS,
    add_summaries=False
)
```

Defined in tensorflow/contrib/gan/python/losses/python/losses_impl.py.

Modified generator loss for GANs.

```
L = -log(sigmoid(D(G(z))))
```

This is the trick used in the original paper to avoid vanishing gradients early in training. See **Generative Adversarial Nets** (https://arxiv.org/abs/1406.2661) for more details.

Args:

- discriminator_gen_outputs: Discriminator output on generated data. Expected to be in the range of (-inf, inf).
- label_smoothing: The amount of smoothing for positive labels. This technique is taken from **Improved Techniques for Training GANs** (https://arxiv.org/abs/1606.03498). **0.0** means no smoothing.
- weights: Optional **Tensor** whose rank is either 0, or the same rank as **discriminator_gen_outputs**, and must be broadcastable to **labels** (i.e., all dimensions must be either 1, or the same as the corresponding dimension).
- scope: The scope for the operations performed in computing the loss.
- loss_collection: collection to which this loss will be added.
- reduction: A tf.losses.Reduction to apply to loss.
- add_summaries: Whether or not to add summaries for the loss.

Returns:

A loss Tensor. The shape depends on reduction.

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Last updated November 2, 2017.

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