TencorFlow

TensorFlow API r1.4

tf.contrib.gan.losses.wargs.minimax_generator_loss

```
minimax_generator_loss(
    discriminator_gen_outputs,
    label_smoothing=0.0,
    weights=1.0,
    scope=None,
    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.

Original minimax generator loss for GANs.

Note that the authors don't recommend using this loss. A more practically useful loss is modified_generator_loss.

L = log(sigmoid(D(x))) + log(1 - sigmoid(D(G(z))))

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 discriminator_gen_outputs (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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