TancarFlow

TensorFlow API r1.4

tf.contrib.gan.get_joint_train_hooks

get_joint_train_hooks(train_steps=namedtuples.GANTrainSteps(1, 1))

Defined in tensorflow/contrib/gan/python/train.py.

Returns a hooks function for sequential GAN training.

When using these train hooks, IT IS RECOMMENDED TO USE **use_locking=True** ON ALL OPTIMIZERS TO AVOID RACE CONDITIONS.

The order of steps taken is: 1) Combined generator and discriminator steps 2) Generator only steps, if any remain 3) Discriminator only steps, if any remain

NOTE: Unlike <code>get_sequential_train_hooks</code>, this method performs updates for the generator and discriminator simultaneously whenever possible. This reduces the number of <code>tf.Session</code> calls, and can also change the training semantics.

To illustrate the difference look at the following example:

train_steps=namedtuples.GANTrainSteps(3, 5) will cause get_sequential_train_hooks to make 8 session calls: 1) 3 generator steps 2) 5 discriminator steps

In contrast, **get_joint_train_steps** will make 5 session calls: 1) 3 generator + discriminator steps 2) 2 discriminator steps

Args:

• train_steps: A GANTrainSteps tuple that determines how many generator and discriminator training steps to take.

Returns:

A function that takes a GANTrainOps tuple and returns a list of hooks.

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