TencorFlow

TensorFlow API r1.4

tf.keras.optimizers.RMSprop

```
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Class RMSprop

Inherits From: Optimizer

Defined in tensorflow/python/keras/_impl/keras/optimizers.py.

RMSProp optimizer.

It is recommended to leave the parameters of this optimizer at their default values (except the learning rate, which can be freely tuned).

This optimizer is usually a good choice for recurrent neural networks.

Arguments:

- 1r: float >= 0. Learning rate.
- rho: float >= 0.
- epsilon: float >= 0. Fuzz factor.
- decay: float >= 0. Learning rate decay over each update.

Methods

__init__

from_config

```
from_config(
   cls,
   config
)
```

get_config

```
get_config()
```

get_gradients

```
get_gradients(
   loss,
   params
)
```

get_updates

```
get_updates(
   loss,
   params
)
```

get_weights

```
get_weights()
```

Returns the current value of the weights of the optimizer.

Returns:

A list of numpy arrays.

set_weights

```
set_weights(weights)
```

Sets the weights of the optimizer, from Numpy arrays.

Should only be called after computing the gradients (otherwise the optimizer has no weights).

Arguments:

• weights: a list of Numpy arrays. The number of arrays and their shape must match number of the dimensions of the weights of the optimizer (i.e. it should match the output of get_weights).

Raises:

• ValueError: in case of incompatible weight shapes.

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