TencorFlow

TensorFlow API r1.4

tf.contrib.bayesflow.csiszar_divergence.t_power

```
t_power(
    logu,
    t,
    self_normalized=False,
    name=None
)
```

Defined in tensorflow/contrib/bayesflow/python/ops/csiszar_divergence_impl.py.

The T-Power Csiszar-function in log-space.

A Csiszar-function is a member of,

```
F = \{ f:R_+ \text{ to } R : f \text{ convex } \}.
```

When **self_normalized = True** the T-Power Csiszar-function is:

```
f(u) = s [u**t - 1 - t(u - 1)]

s = \{ -1 \quad 0 < t < 1 \}

\{ +1 \quad \text{otherwise} \}
```

When $self_normalized = False$ the - t(u - 1) term is omitted.

This is similar to the amari_alpha Csiszar-function, with the associated divergence being the same up to factors depending only on t.

Args:

- logu: float-like Tensor representing log(u) from above.
- t: Tensor of same dtype as logu and broadcastable shape.
- self_normalized: Python bool indicating whether f'(u=1)=0.
- name: Python str name prefixed to Ops created by this function.

Returns:

• t_power_of_u: float -like Tensor of the Csiszar-function evaluated at u = exp(logu).

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