TancarFlow

TensorFlow API r1.4

tf.contrib.bayesflow.stochastic_graph.surrogate_loss

```
surrogate_loss(
    sample_losses,
    stochastic_tensors=None,
    name='SurrogateLoss'
)
```

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

See the guide: BayesFlow Stochastic Graph (contrib) > Stochastic Computation Graph Helper Functions

Surrogate loss for stochastic graphs.

This function will call **loss_fn** on each **StochasticTensor** upstream of **sample_losses**, passing the losses that it influenced.

Note that currently **surrogate_loss** does not work with **StochasticTensor** s instantiated in **while_loop** s or other control structures.

Args:

- sample_losses: a list or tuple of final losses. Each loss should be per example in the batch (and possibly per sample); that is, it should have dimensionality of 1 or greater. All losses should have the same shape.
- stochastic_tensors: a list of **StochasticTensor** s to add loss terms for. If None, defaults to all **StochasticTensor** s in the graph upstream of the **Tensor** s in **sample_losses**.
- name: the name with which to prepend created ops.

Returns:

Tensor loss, which is the sum of sample_losses and the loss_fn s returned by the StochasticTensor s.

Raises:

- TypeError: if sample_losses is not a list or tuple, or if its elements are not Tensor s.
- ValueError: if any loss in **sample_losses** does not have dimensionality 1 or greater.

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