TancarFlow

TensorFlow API r1.4

tf.contrib.signal.stft

```
stft(
    signals,
    frame_length,
    frame_step,
    fft_length=None,
    window_fn=functools.partial(window_ops.hann_window, periodic=True),
    pad_end=False,
    name=None
)
```

Defined in tensorflow/contrib/signal/python/ops/spectral_ops.py.

See the guide: Signal Processing (contrib) > Computing spectrograms

Computes the Short-time Fourier Transform of signals.

Implemented with GPU-compatible ops and supports gradients.

Args:

- signals: A [..., samples] float32 Tensor of real-valued signals.
- frame_length: An integer scalar Tensor. The window length in samples.
- frame_step: An integer scalar Tensor. The number of samples to step.
- fft_length: An integer scalar **Tensor**. The size of the FFT to apply. If not provided, uses the smallest power of 2 enclosing **frame_length**.
- window_fn: A callable that takes a window length and a dtype keyword argument and returns a [window_length]
 Tensor of samples in the provided datatype. If set to None, no windowing is used.
- pad_end: Whether to pad the end of signals with zeros when the provided frame length and step produces a frame
 that lies partially past its end.
- name: An optional name for the operation.

Returns:

A [..., frames, fft_unique_bins] Tensor of complex64 STFT values where fft_unique_bins is fft_length // 2 + 1 (the unique components of the FFT).

Raises:

• ValueError: If signals is not at least rank 1, frame_length is not scalar, or frame_step is not scalar.

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