

Module: tf.contrib.kfac.utils

[Contents](#)[Classes](#)[Functions](#)[Other Members](#)Defined in [tensorflow/contrib/kfac/python/ops/utils_lib.py](#).

Utility functions.

Classes

class [SequenceDict](#) : A dict convenience wrapper that allows getting/setting with sequences.**class** [SubGraph](#) : Defines a subgraph given by all the dependencies of a given set of outputs.

Functions

column_to_tensors(...) : Converts a column vector back to the shape of the given template.**compute_pi(...)** : Computes the scalar constant pi for Tikhonov regularization/damping.**fwd_gradients(...)** : Compute forward-mode gradients.**generate_random_signs(...)** : Generate a random tensor with {-1, +1} entries.**kronecker_product(...)** : Computes the Kronecker product two matrices.**layer_params_to_mat2d(...)** : Converts a vector shaped like layer parameters to a 2D matrix.**mat2d_to_layer_params(...)** : Converts a canonical 2D matrix representation back to a vector.**posdef_inv(...)** : Computes the inverse of tensor + damping * identity.**posdef_inv_cholesky(...)** : Computes inverse(tensor + damping * identity) with Cholesky.**posdef_inv_matrix_inverse(...)** : Computes inverse(tensor + damping * identity) directly.**setdefault(...)** : Like dict.setdefault but delays evaluation of the value to be set.**tensors_to_column(...)** : Converts a tensor or list of tensors to a column vector.

Other Members

posdef_inv_funcs

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