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SciPy v0.14.0 Reference Guide (../index.html)

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This is documentation for an old release of SciPy (version 0.14.0). Search for this page (https://docs.scipy.org/doc/scipy/search.html?q=scipy.ndimage.filters.minimum_filter) in the documentation of the latest stable release

(https://docs.scipy.org/doc/scipy/reference/) (version 1.12.0).

scipy.ndimage.filters.minimum_filter

scipy.ndimage.filters.minimum_filter(*input, size=None, footprint=None, output=None, mode='reflect', cval=0.0, origin=0***) [source]**

(http://github.com/scipy/scipy/blob/v0.14.0/scipy/ndimage/filters.py#L913)

Calculates a multi-dimensional minimum filter.

Parameters: input : array_like

Input array to filter.

size : scalar or tuple, optional

See footprint, below

footprint : array, optional

Either *size* or *footprint* must be defined. *size* gives the shape that is taken from the input array, at every element position, to define the input to the filter function. *footprint* is a boolean array that specifies (implicitly) a shape, but also which of the elements within this shape will get passed to the filter function. Thus size=(n, m) is equivalent to $footprint=np.\ ones((n, m))$. We adjust *size* to the number of dimensions of the input array, so that, if the input array is shape (10,10,10), and *size* is 2, then the actual size used is (2,2,2).

output : array, optional

The *output* parameter passes an array in which to store the filter output.

mode : { 'reflect' , 'constant' , 'nearest' , 'mirror' , 'wrap' },
optional

The *mode* parameter determines how the array borders are handled, where *cval* is the value when mode is equal to 'constant'. Default is 'reflect'

cval : scalar, optional

Value to fill past edges of input if *mode* is 'constant'. Default is 0.0

origin : scalar, optional

The *origin* parameter controls the placement of the filter. Default 0.0.

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