
Subject: Clustering

Posted by [Kai Muehlbauer](#) on Fri, 28 Oct 2011 12:29:48 GMT

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Hi there,

I'm working with multidimensional arrays.

```
A DOUBLE = Array[2000, 50, 360]
```

I compute Histograms over the second dimension for all points (2000,360):

```
tmp_arr = HISTOGRAM( a[K,*,J],BINSIZE=0.1, MAX=15., MIN=0.)
```

Now I have one Histogram for every point. There are 3 possible peaks in the histogram output. My intention is to cluster (or group) the histograms in clusters (or groups) of similar histograms. The maximum number of groups I would manage in the further processing is 10.

Aim is to finally get an array (2000,360) with contents from 0 to 9.

I stumbled over CLUSTER and CLUST_WTS and tried to get something useful out, but failed so far. For every stripe of 360 histograms I calculated the weights and CLUSTER, but this did not seem the right approach.

I appreciate any hints and suggestions.

Cheers,

Kai
