
Subject: Re: clustering

Posted by [little davey](#) on Mon, 23 Jul 2007 16:08:34 GMT

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On Jul 17, 10:36 am, nivedita.raghun...@gmail.com wrote:

> Hi all,

>

> I am trying to cluster a (7 x n) array with n_clusters=5. Visually I
> can see 5 distinct clusters, but when I do clust_wts the cluster
> centroids don't end up right. No matter what options I give, clust_wts
> refuses to find the clusters.

>

> Any idea on whats going on ?

>

> Thanks,

> Nivedita

I seem to recall that "clust_wts.pro" just doesn't work. Because of "work" I don't have time to dig into it, but I have glanced at a file I have called "myclust_wts.pro" that I copied from the IDL directory. I recall having stepped through the program, and I found that, oh, I think it didn't "converge" or something like that. I hate saying this without having the decency to do my homework, but my memory is that CLUST_WTS just does not work. The algorithm I thought was not adequate. I'm looking at where it says:

```
;Normalized uniformly random cluster weights.
;;Weights = RANDOMU(SEED, N_Variables, N_Clusters) + Zero
  av1 = average(array[0,*])
  av2 = average(array[1,*])
Weights = RANDOMU(SEED, N_Variables, N_Clusters) + Zero
for k = 0L, N_Clusters-1 do Weights[* ,k] = $
  (Weights[* ,k] / TOTAL(Weights[* ,k])) * Variable_Wts
```

I recall something like the weights and the data simply didn't have the same data range, so the algorithm failed. Sorry if I'm totally wrong.

-- Dave K --
