Subject: Cluster analysis code Posted by Andrea Spinelli on Mon, 12 Aug 1996 07:00:00 GMT

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Hi everyone,

I am looking for a cluster analysis procedure written, of course, in IDL. I have browsed several ftp sites, but I was not able to find anything interesting. Is there anybody who can help me?

Thanks in advance, Andrea

--

Andrea Spinelli - Ismes Spa. 9, Via Pastrengo, 24068 Seriate BG, Italy tel.: +39-35-307777 fax.: +39-35-302999 e-mail: aspinelli@ismes.it "Truth hurts, but pimples much more"

Subject: Re: Cluster analysis
Posted by Ewan A. Macpherson on Fri, 27 Feb 1998 08:00:00 GMT
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John Dickson wrote:

>

- > I have a 3D image array containing a series of clusters
- > of pixels of value 1, in a sea of value zero pixels.

>

- > Has anyone an idea on how to produce an algorithm to count
- > the number of pixels in each of these clusters?

Are these contiguous clusters or just regions of higher density? If the former, you could easily use a minimum spanning tree algorithm to identify and label the clusters. I have some (inefficient, I fear) PV-Wave code you'd be welcome to.

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Ewan Macpherson

Subject: Re: Cluster analysis

Posted by Alex Schuster on Mon, 02 Mar 1998 08:00:00 GMT

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John Dickson wrote:

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- > of value 1, in a sea of value zero pixels.

>

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- > number of pixels in each of these clusters?

Are the clusters connected? If not, I would look at the SEARCH3D routine.

If you need more than that, maybe the routines NN_LEARN and NN_CLUST could help, this is an implementations of the k-means cluster analysis. I don't recall where I got them from, they were a bit hard to find, so if anyone is interested, just ask me and I mail them.

Alex

--

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PGP Key available