Subject: Re: Connected component analysis
Posted by Jason P. Meyers on Wed, 08 Nov 2000 08:00:00 GMT
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Dave,

This sounds like a 3-D extension of a problem we discussed in our graduate DIP class. One of our homework problems involved discussing an algorithm to do a 2-D analogy of what you are asking. Our professor, Dr. Rhody, has a rather extensive website which includes most of our class notes on the subject. His library of routines also has a program called HR_LABEL_REGION which is an improved version of IDL's LABEL_REGION routine which only works on binary images.

You can check out the website at: http://www.cis.rit.edu/class/simg782/

The textbook that we use in the class is Digital Image Processing, by Gonzalez and Wood, ISBN 0-201-50803-6. I don't know how useful it is for your problem because we have been relying mostly on the professor's class notes and only use the text as a reference from time to time.

Please let me know if you think I might be able to help you further.

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Dave Brennan wrote:
>
> Hi,
>
> I am currently trying to write a program in IDL to analyze brain MRI
> images. This involves using various morphological operations. I was
> wondering if anyone has any experience using connected component
> analysis in IDL.
> I am trying to replicate results that I can produce using Analyze AVW's
> connect operator (this connects 3D binary structures and gives them a
> grey scale value relating to their size).
>
> If anyone has any code or knows of a good way to go about this (or any
> good references) please could you let me know.
>
> Thanks for your help
>
> Dave Brennan