Subject: Re: connected component labeling problem in a graylevel image without background
Posted by David Fanning on Fri, 11 Oct 2002 16:38:48 GMT
View Forum Message <> Reply to Message

Julia (julia65201@yahoo.com) writes:

> But I think you kind of misunderstood my problem, maybe due to my not very
> clear expression. :)
>
>>> " The problem is like a grayscale photograph of a jar of
>>> marbles. Each marble is uniformly gray. All the marbles are touching each
>>> other, so there is no
>>> background. Two marbles of the same color may not belong to the same
>>> region.
>>> I want to give a unique label to each marble/region."
>
> In my problem, all the marbles are touching each other, so there is no
> background there. I do not think I can use
> label_region on the original image. So I do like this:
> First, use HISTOGRAM to get a mask of regions at each gray level, and then
> use LABEL_REGION on each mask.
>
> If there are n gray levels in the image, I need do label_region n times. I
> think this is not very efficient. I am not sure if I can solve this kind of
> problem more efficiently in IDL, I call it "connected component labeling
> problem in a graylevel image without background".
>
> Any suggestion there?

I'd never be confused with a mathematician, but if you
have N gray-levels and you have a tool that works with
bi-level images only, don't you pretty much have to use
your tool N times to get what you want? At least if I
understand the question to be: How many marbles do I have
with a gray-scale level of X?

Cheers,

David

P.S. Let's just say I'd bet some good money even the
HISTOGRAM function can't get us out of this one. :-)

--
David W. Fanning, Ph.D.
Fanning Software Consulting, Inc.
Phone: 970-221-0438, E-mail: david@dfanning.com