Subject: Re: filling holes in blobs quickly

Posted by Ted Cary on Tue, 16 Apr 2002 00:42:09 GMT

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Doug Martin wrote:

>

- > I strongly suspect there is an intelligent way to do
- > this: fill in all dark blobs up to a certain size.

>

Hi Doug,

MORPH_CLOSE will fill in all the dark holes that are smaller than the size of its structuring element. It will also fill small inlets in your domain boundaries, so use it if you don't mind closing boundary concavities along with your holes.

Hope this helps,

TC

Subject: Re: filling holes in blobs quickly Posted by anne.martel on Tue, 16 Apr 2002 09:33:46 GMT View Forum Message <> Reply to Message

You could find the connected dark region outside of the bright blobs. Anything that doesn't belong to that region is either a bright object or a dark hole completely surrounded by bright pixels.

```
r = search2d(mask,0,0,0,0)
if(r(0) ge 0) then begin
mask(*)=1
mask(r)=0
endif
```

This assumes that [0,0] always lies outside a blob.

Anne

dmartin@chaos.ph.utexas.edu (Doug Martin) wrote in message news:<d2bf73f3.0204151417.6e64bf7d@posting.google.com>...

- > I'm sure this is a well solved problem, but:
- > I'm trying to fill in holes inside of domains (blobs) quickly. The
- > domains are in a binary image, and are bright.

>

> Right now, I search for dark regions - the holes (label_region);

- > pick out those of a small size (histogram and where);
- > and then fill them in (a FOR loop through the where values, since I
- > don't know how to get where to compare to every value in a vector).

>

- > This is slow, and I strongly suspect there is an intelligent way to do
- > this: fill in all dark blobs up to a certain size.
- > Thanks for any help,

>

- > Doug Martin
- > University of Texas at Austin

Subject: Re: filling holes in blobs quickly

Posted by the_cacc on Tue, 16 Apr 2002 09:50:41 GMT

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DILATE

Not much experience with it, but it seems like a good candidate.

Subject: Re: filling holes in blobs quickly

Posted by dmartin on Wed, 17 Apr 2002 21:05:52 GMT

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the_cacc@hotmail.com (trouble) wrote in message news:<5f9f0a23.0204160150.33d49a69@posting.google.com>...

> DILATE

>

> Not much experience with it, but it seems like a good candidate.

Thanks for all of your suggestions (incl Morph_Close and search2d). Search2d seems to work well, but is somewhat slow (?), especially when compared to label_region.

I'm using 5.2.1, so Morph_close isn't on there, but I have been using a combination of dilate and erode functions to do something similar (I think).

One problem is that this does fill in small channels.

Does anyone know how to intelligently design structuring elements to remove round-ish objects only?

Thanks again,

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