Subject: Re: thinning operation

Posted by Thomas S. Spisz on Tue, 17 Jul 2001 17:33:43 GMT

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<!doctype html public "-//w3c//dtd html 4.0 transitional//en">
<html>
I'm not sure whether it's impossible, but I do know that most thinning
algorithms will shorten the line (especially with variable width). 
I've used the 'THIN' function and also implemented in IDL some algorithms
published in literature such as ones by <i>Zhang and Suen</i>.&nbsp; What
I've done about the line shortening effect is to return the end pixels
of each line.   This is done by extending points from the thinned line
in the direction of the last two pixels and comparing it to the original
thick line.   If there was a pixel in the thick line, then extend the
thin line one pixel and keep going.   I described this in the journal:
<br>&nbsp;&nbsp;&nbsp; <i>Medical & Diological Engineering & Diolo
November, 1998.
<br>&nbsp;&nbsp;&nbsp; authors:&nbsp; Spisz, T.S.; Fang, Y.; Reeves, R.H.;
Seymour, C.K.; Bankman, I.N.; Hoh, J.H.;  
>By your questions and your previous question about 'LABEL REGION', I'm
guessing that you are trying to find the length of certain things in an
image.  I've published a couple papers on this in addition to the
one I listed above.
Hope this helps.
  --tom spisz
<br/><br>%nbsp;
<br/>

Julia wrote:
<blockguote TYPE=CITE>What I mean is that if it is a curve line with variable
width, how can
<br/>det the not-shorten skeleton. Do you mean it's impossible?
Julia
Craig Markwardt <craigmnet@cow.physics.wisc.edu> wrote in message
news:<on66cw7420.fsf@cow.physics.wisc.edu>...
<br>> julia65201@usa.net (Julia) writes:
<br>>
<br/>br>> > Hi, there,
<br/>br>> >
<br/><br/><br/>> > In IDL, the THIN function returns the "skeleton" of a bi-level
<br/>

How
<br>> > can I prevent that?
<br>>
<br>> Make sure your lines don't have ends?
<br>>
<br />
br>> Craig
<br>>
```

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