
Subject: Re: Average outline of several contours
Posted by [David Fanning](#) on Fri, 21 Nov 2003 06:08:43 GMT
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Beat Schmutz writes:

- > I have combined 8 contours of bone cross-sections into one image
- > (individual ROIs in a IDLgrROIGroup). Now I like to determine the
- > path/outline which represents the average of these 8 contours. Is
- > anyone aware of a program/code/method that enables me to achieve this?
- > Any help would be greatly appreciated.

The Matlab folks probably have a better idea, but
how about a purely graphical approach?

Assign the pixels inside each ROI a value. Say 10.
Draw each filled ROI on a clean image, as you draw
the ROIs add their pixel values. Do this with all
eight ROIs. When you are finished, divide the pixel
values by the number of ROIs. Pixels that were in
all eight ROIs now have a value of 10, pixels that
appear in some ROIs, but not others, have lesser
values. Now just contour the "blob" you have there
with the average value of all the pixels in the
image.

Wouldn't that be the "average" ROI path?

I don't know what I am doing answering IDL questions.
It is VERY late. (I'm getting to be as bad as Reimar,
working night and day.) Your mileage may vary with
this answer. :-)

Cheers,

David

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