Subject: Need Some Good Ideas
Posted by David Fanning on Thu, 21 Feb 2002 02:46:55 GMT
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Folks,

Do you have your thinking caps on? I'm looking for
a few good ideas.

I have a bunch of blobs. (Think spots on the
Gateway cow.) I would like to analyze the curvature
and bends in the perimeter of the blobs. I have
the indices of the points that make up the blob, and
I have obtained the "perimeter" points by contouring
the blob. Unfortunately, these perimeter points are
not evenly distributed. (Think of a blob that has a
long, straight side. The contour command will put a
point at either end of the straight bit, so the points
on that side of the blob are sparse, while the points
along a tight bend on the other side of the blob
are dense.)

I say "unfortunately" because we have a method that
uses the derivative of the perimeter at each point
and the FFT transform of the derivative distribution,
but it seems to be giving funny results because of this
point distribution problem.

Has anyone heard of this kind of curvature analysis
before? Any pointers to literature? I've heard that
IDL can be used to solve these kinds of problems. :-)

Thanks,

David
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