Subject: Re: One ellipse to rule them all
Posted by ianpaul.freeley on Mon, 11 Feb 2008 23:06:54 GMT
View Forum Message <> Reply to Message

On Feb 11, 4:51 pm, David Fanning <n...@dfanning.com> wrote:
> ianpaul.free...@gmail.com writes:
>> I'm hoping someone has done this before and can help me out.
>
>> I have a bunch of x,y points, and I'd like to find the ellipse (with
>> minimum area) that encompasses all of them. Any thoughts?
>
> I can show you how to find an ellipse:
>
> http://www.dfanning.com/ip_tips/fit_ellipse.html
>
> To enclose all the points I would, uh, expand it
> slowly. :-)
>
> Cheers,
>
> David
>
> --
> David Fanning, Ph.D.
> Fanning Software Consulting, Inc.
> Coyote's Guide to IDL Programming (www.dfanning.com)
> Sepore ma de ni thui. ("Perhaps thou speakest truth.")

My gut tells me I should be able to do it analytically. I *think* the two points that have the largest separation should define the major axis and position angle. Then I just need to fit for the minor axis from the rest of the points, and the largest one is the winner.