
Subject: Re: How to get the center and radius for a x,y array

Posted by [oupin](#) on Sat, 07 Feb 2009 07:21:44 GMT

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On Feb 7, 9:06 am, Vince Hradil <vincehra...@gmail.com> wrote:

> On Feb 6, 7:05 pm, Vince Hradil <vincehra...@gmail.com> wrote:

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>> On Feb 6, 6:52 pm, oupin <hbb1...@gmail.com> wrote:

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>>> On Feb 7, 12:19 am, Vince Hradil <vincehra...@gmail.com> wrote:

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>>>> On Feb 6, 10:09 am, oupin <hbb1...@gmail.com> wrote:

>

>>>> > I want to get the center and radius for a 2-D array which includes x,y

>>>> > values. Could you give me some suggestions and examples?

>

>>>> We're going to need more details. You have (x,y) pairs? Do you want

>>>> Center-of-mass? What do you mean by "radius"? Do you want to fit a

>>>> circle?

>

>>> Yes, I have (x,y) pairs, and want to fit a circle using these data,

>>> and calculate the center and radius of the circle.

>

>> Ah - so just minimize $\sum \{ r^2 - ((x_i - x_c)^2 + (y_i - y_c)^2) \}$

>> to find [r,xc,yc].

>

> Is that right - I'm getting tired... it's something like that anyway.

yes, that is what I mean
