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

Posted by [Vince Hradil](#) on Sat, 07 Feb 2009 01:05:07 GMT

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On Feb 6, 6:52 pm, oupin <hhb1...@gmail.com> wrote:

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

>

>> On Feb 6, 10:09 am, oupin <hhb1...@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].
