
Subject: Re: x-y offsets

Posted by [Jeremy Bailin](#) on Wed, 19 May 2010 06:50:58 GMT

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On May 18, 8:29 pm, Gray <grayliketheco...@gmail.com> wrote:

> Hi all,

>

> This is a variation on the 2D matching problem that I'm having trouble
> algorithm-ing (to coin an incredibly awkward word).

>

> I have two sets of XY coordinates of unequal length (i.e., $x_1/y_1/n_1$,
> $x_2/y_2/n_2$, $n_1 \neq n_2$). I want to find offsets in both X and Y that
> match the two sets as closely as possible (there will obviously be
> some unmatched coordinates in the larger set). I'm just looking for
> constant offsets, so basically (for $n_1 < n_2$) $x_1 + C_x \rightarrow x_2$, $y_1 + C_y \rightarrow$
> y_2 , with some elements of x_2 and y_2 being unmatched. How do I go
> about doing this? I don't think I can use JD's MATCH_2D because I
> don't know a priori what my matching radius is.

>

> Any suggestions? Thanks, as always!

>

> --Gray

I would be tempted to create a 2D histogram based on each set and then
cross-correlate them.

-Jeremy.
