Subject: Re: x-y offsets Posted by Gray on Wed, 19 May 2010 19:45:13 GMT

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On May 19, 2:50 am, Jeremy Bailin <astroco...@gmail.com> wrote:
> On May 18, 8:29 pm, Gray <grayliketheco...@gmail.com> wrote:
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>> Hi all,
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>> 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., x1/v1/n1,
>> x2/y2/n2, n1 ne n2). 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 n1 < n2) x1 + Cx -> x2, y1 + Cy ->
>> y2, with some elements of x2 and y2 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.
How do you turn the cross-correlation into offsets? And, how do you
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intelligently choose a binsize for the histogram?