
Subject: Re: find rotation between two images
Posted by [dcw_yip](#) on Fri, 10 Sep 2004 21:35:55 GMT
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Do some simple feature extraction and then do a least-squares fit. Look up the paper in IEEE transactions entitled "Least-Squares Fitting of Two 3-D Point Sets" by Arun, Huang and Blostein. I wrote some code to do basically what you are describing. Their paper is very clear and took me about an hour or two to code up. You won't get exact rotation angles. They'll be within a half a degree or so.

There are also some enhancements to their algorithm to give you scaling, shearing, etc, etc if you need that.

David

tbeetz@yahoo.com (Tobi) wrote in message
news:<7f0cc27.0409011354.45cce42f@posting.google.com>...
> i have several images where i would like to find the rotation and
> shift compared to a reference image. i use an alignment routine to
> seperate the shifting part. however, there is still the remaining
> problem of image rotation. is there a routine available? thanks!
