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Subject: mosaic routine?

Posted by [Richard French](#) on Fri, 26 Dec 2008 16:01:51 GMT

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Hi, folks -

I'm trying to create an accurate mosaic composite image from about 45 tiles. In the simplest instance, no rotations or reprojections are required - just sliding rectilinearly. I'd like the mosaic to be accurate to sub-pixel accuracy, so some interpolation is likely to be required. I've tried some simple schemes of using cross-correlations and of subtracting the overlap regions and minimizing the rms differences between the two images, but there must be routines out there that do this as well as a large literature on the subject that I have not yet been able to track down. Has anyone written an IDL routine to do this sort of thing? My images are all single-filter (i.e., gray-scale) floating-point 800 x 800 or 1024 x 1024 images. Thanks for any suggestions.

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