Subject: Re: Registration of 3D shells?
Posted by Dick Jackson on Thu, 16 May 2002 15:25:51 GMT
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"Craig Markwardt" <craigmnet@cow.physics.wisc.edu> wrote in message news:onptzxkpqu.fsf@cow.physics.wisc.edu... > "Dick Jackson" <dick@d-jackson.com> writes: >> Hi all, >> >> I'd like to know if anyone has any experience to share on registration of 3D >> shells. That is, if you have two IDLgrPolygons (or Surfaces) that are >> 'snapshots' of the surface of an object, which: > > > Hi Dick--> Are these 2d or 3d data sets? When you say surface that could be an > isosurface within a 3d data volume, or simple the surface z = f(x,y)> of a 2d data set. > I think registration of 2d data sets is commonly done with a cross > correlation. Yes, they are generally like a z = f(x,y) surface, in that a surface doesn't wrap around behind itself. With some datasets we have regular (x,y), sometimes not. As I understand it, cross correlation could find the best x-y translation with regular (x,y), but we have rotation and translation in 3D to contend with. My solution will need 6 parameters, can cross correlation help out here? Thanks for your interest! Cheers, -Dick Dick Jackson dick@d-jackson.com D-Jackson Software Consulting / http://www.d-jackson.com Calgary, Alberta, Canada / +1-403-242-7398 / Fax: 241-7392