Subject: Re: 3d polygon mesh for 3 indpendent variables, x,y,z
Posted by Guneshwar Thangjam on Tue, 24 Mar 2015 22:15:45 GMT
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On Thursday, 19 March 2015 11:23:54 UTC+1, guni wrote:
> Hi,
> I am a new in IDL. And I need some help.
> I have 3 independent variables. I plotted 3d polygon in MATLAB using 'convhull' and then 'trimesh' precedures. But I have to do in IDL. I already plotted a 3d scatter plot using 'plot3d' and then I go for 'qhull' for the delaunay triangulation. However, I am not able to plot the (bound) polygon mesh in my 3d plot. Or, is this triangulation not the way I should look for?
> If anyone can help how to plot such a 3d-polygon, that will be a nice pleasure.
>
> ---------
> ;3 indpendent variables
> x=randomu(seed,100)
> y=randomu(seed,100)
> z=randomu(seed,100)
> ;3d scatter plot
> p = PLOT3D(x, y, z, 'o' ,/SYM_FILLED,AXIS_STYLE=2,/PERSPECTIVE)
> ;construct 3d triangulation
> qhull,x,y,z,triangle,/delaunay,VDIAGRAM=vdiagram,$
VVERTICES=vvertices,connectivity=connectivity
> ;how to plot the polygon using the returned variables from qhull procedure
> ?
> ----------
>
> Thanks in advance,
> Guni

Dear Dick,
Thank you so much. It really helps me a lot.
Guni