Subject: 3d polygon mesh for 3 indpendent variables, x,y,z
Posted by Guneshwar Thangjam on Thu, 19 Mar 2015 10:23:52 GMT

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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.

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;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
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Thanks in advance,
Guni