

Visualization tool for 3D GIS data

Yoshiaki Fujii[1]; Naru Hirata[1]; Hirohide Demura[1]; Noriaki Asada[1]; Demura Hirohide Aizu Lunar and Planetary Science Group[2]

[1] Univ. of Aizu; [2] -

The irregular shaped small bodies cannot be adopted to the existing GISs commonly used for the Earth map data, because the irregular shape. For extremely irregular shaped bodies, it is im-possible to define a location of an object on the surface by the standard latitude-longitude coordi-nation. The plane map of the asteroid is also not to help to understand the general contexts of sur-face features, because of a large distortion. Thus, three-dimensional visualization is very useful for a GIS-based analysis of the asteroid data.

We develop a tool for visualization of a 3D figure, which is modeled with polygons. Several kinds of physical values (e.g. slope) are attributed to the polygons.