

ABSTRACT

An object of the present invention is to provide a drawing device that projects each three-dimensional geographical region onto a two-dimensional image and draws this image, and that, even when drawing geographical regions with different resolutions in accordance with the eyepoint position, generates an image without discontinuity in boundary. The drawing device includes a polygon mesh generating unit generating, for each three-dimensional geographical region, a high resolution polygon mesh, or a low resolution polygon mesh whose peripheral region has an enhanced-resolution in such a way that the vertices constructing a boundary have positions matching those of the high resolution polygon mesh, a polygon mesh storage unit storing the low and high resolution polygon meshes, and a projective transformation unit selecting the low or high resolution polygon mesh according to a given eyepoint position, and performing projective transformation of the vertices of the selected polygon mesh into two-dimensional coordinate values.