

A 3D Model Retrieval System Using The Derivative Elevation And 3D-ART

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Abstract

In recent years, the demand for a content-based 3D model retrieval system becomes an important issue. Hence, we will propose two features, included elevation descriptor (ED) and derivative elevation descriptor (DED) to extract the exterior information for 3D model retrieval. To derive better retrieval results, we will combine the exterior features with an interior feature 3D-ART by a novel relevance feedback approach. The experiments are conducted on the Princeton Shape Benchmark (PSB) database. Experiment results show that our proposed method is superior to others.

Keyword :