

3D model retrieval based on Grid Sphere and Dodecahedral Silhouette Descriptors

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Abstract

With the development of computer graphics and virtual realities, the demand for a content-based 3D model retrieval system becomes urgent. In this study, two features, grid sphere and dodecahedral silhouettes, are proposed and combined for 3D model retrieval. The experiments are conducted on a 3D model database. Experiment results show that the proposed methods are superior to others.

Keyword : 3D model retrieval, grid sphere descriptor, dodecahedral silhouette descriptor