

## 3d Cad Model Retrieval Based On Multiple Levels Of Detail

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### 3d Cad Model Retrieval Based

The content-based retrieval only returns the related 3D models , making it difficult for the user to get the featuresâ€™ semantic knowledge related to the CAD model from the retrieval result. At present, lots of scholars have begun doing many researches [2.3.4] in semantic retrieval on 3D model, but there are few researches on 3D CAD model.

### Three-dimensional CAD Model Retrieval Algorithm Based on ...

A Novel 3D CAD Model Retrieval Method Based on Vertices Classification and Weights Combination Optimization. 3D shape retrieval is a problem of current interest in different fields, especially in the mechanical engineering domain. According to our knowledge, multifeature based techniques achieve the best performance at present.

### A Novel 3D CAD Model Retrieval Method Based on Vertices ...

3D CAD Model Retrieval Based on Multiple Levels of Detail. 3D CAD Model Retrieval Based on Multiple Levels of Detail. Jiantao Pu Subramaniam Jayanti Suyu Hou Karthik Ramani\* PRECISE, School of Mechanical Engineering, Purdue University, U.S.A. Abstract.

### 3D CAD Model Retrieval Based on Multiple Levels of Detail

Thus, the system can retrieve the engineering drawing by the drawing and text. For 3D-CAD model, we develop a matching method based on projected images: (1) normalize the 3D-CAD models and compute the main directions; (2) Project the model along the above main directions to get 3 pairs of images; (3) Convert 3D model comparison to 2D image pair matching.

### Introduction to 2D drawing/3D-CAD model retrieval system ...

Abstract: In industrial enterprises, effective retrieval and reuse of three-dimensional (3-D) computer-aided design (CAD) models could greatly save time and cost in new product development and manufacturing. Consequently, this article proposes a novel view-based approach for 3-D CAD model retrieval enabled by deep learning.

### View-Based 3-D CAD Model Retrieval With Deep Residual ...

Computer-Aided Design & Applications, Vol. 2, No. 6, 2005, pp 717-725 717 A 2D Sketch-Based User Interface for 3D CAD Model Retrieval Jiantao Pu, Kuiyang Lou and Karthik Ramani Purdue University, {pjiantao, kuilou, ramani}@purdue.edu ABSTRACT This paper describes a sketch user interface enhanced by feedback for 3D CAD model retrieval.

### A 2D Sketch-Based User Interface for 3D CAD Model Retrieval

First (as far as I know) investigation of the use of Capsule Networks for content-based 3d model retrieval. (information retrieval for 3D models) This project was accomplished in just under 4 weeks. I probably used 120 hours of total compute time split between single GPU and 8 GPU aws instances ...

### Capsule Nets for Content Based 3D Model Retrieval - GitHub

The Princeton Shape Benchmark provides a repository of 3D models and software tools for evaluating shape-based retrieval and analysis algorithms. The motivation is to promote the use of

standardized data sets and evaluation methods for research in matching, classification, clustering, and recognition of 3D models.

## **Princeton Shape Retrieval and Analysis Group**

For this purpose, a content-based 3D mesh model retrieval system from hand-written sketch is proposed in this paper. In the system, the user puts a query in the form of a 2D hand-written sketch to a 3D mesh model database, and the system automatically returns a set of mesh models whose 2D views are similar to the input sketch.

## **Content-based 3D mesh model retrieval from hand-written sketch**

There exist many methods for content-based parts retrieval dealing with models represented as both 3D meshes and B-Rep. They can be grouped according to the different approaches, e.g. shape-based, feature-based, or topology-based.

## **Content-based CAD assembly model retrieval: Survey and ...**

In this way, coarse-grained and fine-grained 3D CAD model retrieval are implemented. On this basis, a 3D model retrieval method is proposed based on genetic algorithm (GA) and ant colony optimization (ACO), which are employed to detect the common sub-graph in the corresponding the hierarchical graphs of different models.

## **3D CAD Model Representation and Retrieval Based on ...**

The classical "Shape Distribution D2" algorithm takes the distance between two random points on a surface of CAD model as statistical features, and based on that it generates a feature vector to calculate the dissimilarity and achieve the retrieval goal. This algorithm has a simple principle, high computational efficiency and can get a better retrieval results for the simple shape models.

## **3D CAD model retrieval method based on hierarchical multi ...**

To this end, we propose an end-to-end 3D CNN-based approach to simultaneously retrieve and align CAD models to the objects of a scan in a single pass, for scans of varying sizes. This end-to-end formulation enables the final alignment process to inform learning of scan-CAD correspondences.

## **End-to-End CAD Model Retrieval and 9DoF Alignment in 3D ...**

Research on 3D CAD Model Retrieval Algorithm Based on Global and Local Similarity. A 'read' is counted each time someone views a publication summary (such as the title, abstract, and list of ...

## **Research on 3D CAD Model Retrieval Algorithm Based on ...**

In recent years, the technique of converting geometric data into an image and applying view-based 3D shape retrieval has demonstrated high accuracy. Depth image which encodes depth value as intensity of pixel is frequently used for view-based 3D shape retrieval.

## **Method for the generation of depth images for view-based ...**

Monocular image based 3D object retrieval is a novel and challenging research topic in the field of 3D object retrieval. Given a RGB image captured in real world, it aims to search for relevant 3D objects from a dataset.

## **Monocular Image Based 3D Model Retrieval**

A retrieval method for 3D CAD models based on the softassign quadratic assignment algorithm is presented in this paper. Firstly, retrieval models and target models are expressed as face adjacency graphs (FAGs) and thus 3D CAD model retrieval is turned to a graph matching problem.

## **3D CAD model retrieval based on the softassign quadratic ...**

3D CAD model retrieval based on hierarchical feature descriptor. To improve the distinguishing ability for model's local parts and the searching efficiency in 3D CAD model retrieval, a novel ...

## **A two-tiered retrieval method of CAD model based on ...**

in view-based 3D object retrieval. Our method for selecting the viewpoint and image resolution required to generate a query image is integrated into the view-based partial retrieval method. The authors of used a polygon mesh as a query model.

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