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3D-A-Nets: 3D Deep Dense Descriptor for Volumetric Shapes ...

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Deep Learning Representation using Autoencoder for 3D ...

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DeepShape: Deep Learned Shape Descriptor for 3D Shape ...

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Learning Descriptor Networks for 3D Shape Synthesis and ...

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Deep shape-aware descriptor for nonrigid 3D object retrieval

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Mengwei Ren, Liang Niu, and Yi Fang NYU Multimedia and ...

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Geometric Deep Learned Descriptors for 3D Shape Recognition

*3D deep shape descriptor - IEEE Conference Publication*

DeepShape: Deep-Learned Shape Descriptor for 3D Shape Retrieval Jin Xie, Guoxian Dai, Fan Zhu, Edward K.Wong, and Yi Fang Abstract—Complex geometric variations of 3D models usually pose great challenges in 3D shape matching and retrieval. In this paper, we propose a novel 3D shape feature learning method to

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In this paper, powered with a novel design of adversarial networks (3D-A-Nets), we have developed a novel 3D deep dense shape descriptor (3D-DDSD) to address the challenging issues of efficient and effective 3D volumetric data processing.

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In the 3D shape descriptor component, we form a descriptor from all hidden layer representations of the multiple discriminative auto-encoders. 3.1.

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3D Shape Descriptor Figure 1: The framework of the proposed shape descriptor. Complex geometric structural variations of 3D models usually pose great challenges in 3D shape matching and retrieval. In the past decades, plenty of shape descriptors have been proposed, such as the D2 shape distribution [4], statistical moments [7]. Apart from the earlier shape descriptors, another widely used shape signature is heat kernel signature (HKS) [6], where

*Deep Learning Representation using Autoencoder for 3D ...*

This paper proposes a 3D shape descriptor network, which is a deep convolutional energy-based model, for modeling volumetric shape patterns.

*DeepShape: Deep Learned Shape Descriptor for 3D Shape ...*

Shape descriptor refers to an informative description that provides a 3D object with an identification as a member of some category.

*Learning Descriptor Networks for 3D Shape Synthesis and ...*

Deepshape:deep-learned shape descriptor for 3D shape retrieval Jin Xie, Guoxian Dai, Fan Zhu, Edward K.Wong and Yi Fang IEEE Trans. on Pattern Analysis and Machine Intelligence, 39(7), 1335-1345, 2017, pdf.

## *Jin Xie - GitHub Pages*

3D deep shape descriptor Abstract: Shape descriptor is a concise yet informative representation that provides a 3D object with an identification as a member of some category. We have developed a concise deep shape descriptor to address challenging issues from ever-growing 3D datasets in areas as diverse as engineering, medicine, and biology.

## *[1804.00586v1] Learning Descriptor Networks for 3D Shape ...*

1.1.1 Descriptors. Generally speaking, shape descriptors are simplified representations of 3D objects to describe geometric or topological characteristics of the 3D shape. Shape descriptors can be obtained from the object's geometry, topology, surface, texture or any other characteristic or a combination of all [71, 155].

## *OpenCV Shape Descriptor: Hu Moments Example - PyImageSearch*

Abstract. This paper proposes a 3D shape descriptor network, which is a deep convolutional energy-based model, for modeling volumetric shape patterns. The maximum likelihood training of the model follows an "analysis by synthesis" scheme and can be interpreted as a mode seeking and mode shifting process.

## *DeepShape: Deep-Learned Shape Descriptor for 3D Shape ...*

key element in virtually any shape recognition method is to represent a 3D shape by a concise and compact shape descriptor aimed at facilitating the recognition tasks. The recent trend in shape recognition is geared toward using deep neural networks to learn

## *3D Deep Shape Descriptor - cv-foundation.org*

Shape descriptor is a concise yet informative representation that provides a 3D object with an identification as a member of some category. This paper developed a concise deep shape descriptor for the first time to address challenging issues from ever-growing 3D datasets in areas as diverse as engineering, medicine, and biology.

## *3d Deep Shape Descriptor Cv*

The first component is a 3D shape database where a large volume of shapes are stored. The second component is shape feature extraction where two features: heat kernel signature (HKS) and heat shape descriptor (HeatSD), are extracted. The third component is a deep neural network for learning deep shape descriptor.

## *DeepShape: Deep Learned Shape Descriptor for 3D Shape ...*

networks with target values in a bid to obtain a 3D deep shape descriptor that demonstrated good performance in 3D shape retrieval. Inspired by the Shape google framework for 3D shape retrieval [11], Bu et al. [32] introduced a deep learning-based approach (3D-DL) for 3D shape classification and retrieval. The 3D-DL framework uses a 2D global

## *Deep shape-aware descriptor for nonrigid 3D object retrieval*

Abstract: This paper proposes a 3D shape descriptor network, which is a deep convolutional energy-based model, for modeling volumetric shape patterns. The maximum likelihood training of the model follows an "analysis by synthesis" scheme and can be interpreted as a mode seeking and mode shifting process.

## *A survey on Deep Learning Advances on Different 3D Data ...*

Our autoencoder based 3D shape representation is a deep learning representation; compared to the representations based on local descriptor, e.g. SIFT, it is a global representation. This global deep learning representation and the representation based on local descriptors are complementary to each other.

## *Learning Descriptor Networks for 3D Shape Synthesis and ...*

OpenCV Shape Descriptor: Hu Moments Example. Hu Moments are normally extracted from the silhouette or outline of an object in an image. By describing the silhouette or outline of an object, we are able to extract a shape feature vector (i.e. a list of numbers) to represent the shape of the object.

*Mengwei Ren, Liang Niu, and Yi Fang NYU Multimedia and ...*

Shuran Song I am an assistant professor in computer science department at Columbia University. My research focuses on computer vision and robotics. I'm interested in developing algorithms that enable intelligent systems to learn from their interactions with the physical world, and autonomously acquire the perception and manipulation skills necessary to execute complex tasks and assist people.

*Geometric Deep Learned Descriptors for 3D Shape Recognition*

1.2.1 Hand-Crafted 3D shape Descriptors 3D shape descriptor are succinct and compact representations of 3D object that capture the geometric essence of a 3D object.

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