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3d Deep Shape Descriptor Cv

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.

3D Deep Shape Descriptor - cv-foundation.org

DeepShape: Deep Learned Shape Descriptor for 3D Shape Matching and Retrieval Jin Xie y, Yi Fang , Fan Zhu , and Edward Wongz yDepartment of Electrical and Computer Engineering, New York University Abu Dhabi zPolytechnic School of Engineering, New York University fjin.xie, yfang, fan.zhu,

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ewongg@nyu.edu Abstract Complex geometric structural variations of 3D model

DeepShape: Deep Learned Shape Descriptor for 3D Shape

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3D Deep Shape Descriptor Yi Fang¹, Jin Xie¹, Guoxian Dai¹, Meng Wang¹, Fan Zhu¹, Tiantian Xu², Edward Wong²,
1Department of Electrical and Computer Engineering, New York University Abu Dhabi 2Polytechnic School of Engineering, New York University Shape descriptor refers to an informative description that provides a 3D object with an identification as a member of some category.

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C. Shape Features over Point Clouds The 3D shape is a stable cue for both instance and category recognition. We use shape features to capture the 3D shape cue of objects. We consider two shape features over local point clouds: kernel PCA features and spin kernel descriptor. In Fig. 3, we show the intuition for why kernel PCA

Liefeng Bo, Xiaofeng Ren, Dieter Fox

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.

CVPR 2015 Open Access Repository - cv-foundation.org

3D shape descriptor is a succinct and compact representation of 3D objects that capture the geometric essence of a 3D object. Some existing shape descriptors have been developed to describe the 3D objects [20, 38, 30].

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Unsupervised Deep Shape Descriptor With Point Distribution ...

Dense 3D shape correspondence is an important problem in computer vision and computer graphics. Recently, the local shape descriptor based 3D shape correspondence approaches have been widely studied, where the local shape descriptor is a real-valued vector to characterize the geometrical structure of the shape.

Learned Binary Spectral Shape Descriptor for 3D Shape

...

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.

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

A hybrid shape descriptor is proposed as a representation of objects for recognition. We first extracted five 2D shape features from contour-based images and five 3D shape features over point cloud data to capture the global and local shape characteristics of an object.

An Effective 3D Shape Descriptor for Object Recognition

...

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

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

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diverse as engineering, medicine, and biology.

3D deep shape descriptor - IEEE Conference Publication

Recently researchers have been shifting their focus towards learned 3D shape descriptors from hand-craft ones to better address challenging issues of the deformation and structural variation inherently present in 3D objects. 3D geometric data are often transformed to 3D Voxel grids with regular format in order to be better fed to a deep neural net architecture.

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

tures). Despite significant progress, hand-crafted 3D local descriptors never reached the performance of hand-crafted 2D descriptors. In fact, they still fail to handle point cloud resolution changes, noisy data, occlusions and clutter [10]. Learned 3D Local Descriptors The success of deep-learning methods in image processing also inspired vari-

The Perfect Match: 3D Point Cloud Matching With Smoothed ...

Deep Learning for 3D Point Cloud Understanding: A Survey Haoming Lu 1, ... Section 3 includes a survey of 3D shape ... Section 1 arXiv:2009.08920v1 [cs.CV] 18 Sep 2020. 5 presents a survey of methods for 3D object detection and its derivative task. Section 6 introduces recent progress in 3D point cloud matching and registration. Section 7 pro-

Deep Learning for 3D Point Cloud Understanding: A Survey

Deepshape: Deep learned shape descriptor for 3D shape matching and retrieval Abstract: Complex geometric structural variations of 3D model usually pose great challenges in 3D shape matching and retrieval. In this paper, we propose a high-level shape feature learning scheme to extract features that are insensitive to deformations via a novel ...

Deepshape: Deep learned shape descriptor for 3D shape ...

low-dimensional kernel descriptors from these match kernels

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using kernel principal component analysis (KPCA) [23]. Kernel descriptors are easy to design and can turn any type of pixel attribute into patch-level features. They outperform carefully tuned and sophisticated features including SIFT and deep belief networks.

Kernel Descriptors for Visual Recognition

Abstract. In this paper, we present a novel deep learning framework that derives discriminative local descriptors for 3D surface shapes. In contrast to previous convolutional neural networks (CNNs) that rely on rendering multi-view images or extracting intrinsic shape properties, we parameterize the multi-scale localized neighborhoods of a ...

Learning 3D Keypoint Descriptors for Non-Rigid Shape Matching

described: 3D shape descriptors for general objects from the computer vision literature and medical studies from the craniofacial literature. 2.1 3D Descriptors for General Objects Three-dimensional shape analysis and its application in 3D object retrieval and classification has received increased attention in the past few years.

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