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Optical image recognition of three-dimensional objects

Three-Dimensional Object Recognition from Single Two-Dimensional Images

David G. Lowe Abstract A computer vision system has been implemented that can recognize three-dimensional objects from unknown viewpoints in single gray-scale images. Unlike most other approaches, this recognition is accomplished without any

Relations among early object recognition

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skills: Objects ...

and three-dimensional characteristics of the object. Another major factor determining the accuracy of recognition is the lighting conditions and object pose at the time of recognition. We discuss an approach making use of the depth information and 3d properties of objects in order to accurately identify them independent of lighting conditions.

Three-Dimensional Object Recognition from Single Two ...

Three-dimensional object recognition concerns recognition and localization of objects of interest in a scene from input images. This problem is one of both theoretical and practical importance.

Three-dimensional object recognition is viewpoint ...

three dimensional imaging systems [8, 9].

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The optimality of such algorithms, however, may not carry over if these methods are extended directly to the photon counting regime due to the quantum-limited nature of the imagery. Thus, a new class of automatic object recognition problems arise within the context of photon-counting image sensing [10, 11].

Aspect graphs for three-dimensional
object recognition ...

Optical image recognition of three-dimensional objects. Ting-Chung Poon and Taegeun Kim. A three-dimensional ~3-D! optical image-recognition technique is proposed and studied. The proposed technique is based on two-pupil optical heterodyne scanning and is capable of performing 3-D image recognition.

Three-Dimensional Object Recognition

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from Range Images ...

Relational structure in object recognition.

The potentially relevant aspect of object recognition concerns how children represent the 3-dimensional shapes of common objects, and derives from Biederman's (1987; Hummel & Biederman, 1992) Recognition-By-Components account of visual object recognition. By this account, humans form internal representations that are sparse geometric models of 3-dimensional object shapes built from a set of primitive volumes called *geons*.

Chapter 15 Object Recognition

A general-purpose computer vision system must be capable of recognizing three-dimensional (3-D) objects. This paper proposes a precise definition of the 3-D object recognition problem, discusses basic concepts associated with this

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problem, and reviews the relevant literature.

Three-Dimensional Object Recognition Systems, Volume 1 ...

Three-dimensional object recognition based intelligence system for identification

Abstract: If we compare the object recognition abilities of human and computer-based system, it is much complex task for a machine.

Three Dimensional Object Recognition Systems

Description. The design and construction of three-dimensional [3-D] object recognition systems has long occupied the attention of many computer vision researchers. The variety of systems that have been developed for this task is evidence both of its strong appeal to

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researchers and its applicability to modern
manufacturing, industrial, military,...

Three-Dimensional Model Based Face Recognition

problem may be considered inherently as
two-dimensional object recognition. Three-
dimensional . If the images of objects can
be obtained from arbitrary viewpoints,
then an object may appear very different in
its two views. For object recognition using
three-dimensional models, the perspective
effect and viewpoint of the image have to
be considered.

Three-dimensional object recognition
systems (Book, 1993 ...

Three-dimensional object recognition is
viewpoint dependent | Nature
Neuroscience The human visual system is
faced with the computationally difficult
problem of achieving object constancy:...

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Three dimensional object recognition with
photon counting ...

sensors Article Three-Dimensional Object
Recognition and Registration for Robotic
Grasping Systems Using a Modified

Viewpoint Feature Histogram Chin-Sheng

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Three-Dimensional Object Recognition
and Registration for ...

3D Object Recognition: Inspirations and
Lessons from Biological Vision --Range

Sensing for Computer Vision --Feature

Extraction for 3-D Model Building and

Object Recognition --Three-Dimensional

Surface Reconstruction: Theory and

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Implementation --CAD-Based Object Recognition in Range Images Using Pre-compiled Strategy Trees --Active 3D Object Models --Image Prediction for Computer Vision --Tools for 3D Object Location from Geometrical Features by Monocular Vision --Part-Based Modeling and ...

Three-dimensional face recognition -
Wikipedia

Two homologous, bilaterally symmetrical three-dimensional (3D) objects have been employed that differ in that one is based on parts with flat surfaces and the other on parts with curved surfaces. The following procedure has been followed, separately for each object.

Three-Dimensional Object Recognition and Registration for ...

When this system is overdetermined, we

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can perform a least-squares fit of the errors simply by solving the corresponding normal equations: THREE-DIMENSIONAL OBJECT RECOGNITION $367 \mathbf{jTjh} = \mathbf{JTe}$, where \mathbf{jvj} is square and has the correct dimensions for the vector \mathbf{h} . 3.2.

Three-Dimensional Object Recognition Systems, Volume 1 ...

The design and construction of three-dimensional [3-D] object recognition systems has long occupied the attention of many computer vision researchers. The variety of systems that have been developed for this task is evidence both of its strong appeal to researchers and its applicability to modern manufacturing

Three-dimensional object recognition based intelligence ...

Robotic grasping systems cannot quickly

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or accurately recognize randomly oriented objects that exit an assembly line or which are located on an assembly table so machine vision is used to solve this problem. Previous studies have proposed efficient algorithms for object recognition and pose estimation [1,2,3].

Three-dimensional object recognition from single two ...

Because the human face is a three-dimensional (3D) object whose 2D projection (image) is sensitive to the above changes, utilizing 3D face information can improve the face recognition performance [2, 7]. Range images captured explicitly by a 3D sensor [5, 13] present face surface shape information.

Three-dimensional object recognition

Three-dimensional face recognition (3D face recognition) is a modality of facial

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recognition methods in which the three-dimensional geometry of the human face is used. It has been shown that 3D face recognition methods can achieve significantly higher accuracy than their 2D counterparts, rivaling fingerprint recognition .

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