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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, industrial, military, and consumer environments. 3-D object recognition is of interest to scientists and engineers in several different disciplines due to both a desire to endow

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computers with robust visual capabilities, and the wide applications which would benefit from mature and robust vision systems. However, 3-D object ...

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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 problem, and reviews the relevant literature.

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been conducted to test the ability of incorporating the knowledge of how human vision system works in a three-dimensional object recognition system. Firstly, the process of shape outline detection and secondly, the use of multiple viewpoints of object. Shape outline readings are put through normalization and dimensionality

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This study proposes a 3D
object recognition and
registration system for
robotic grasping that uses a
Kinect sensor. To ensure
accurate pose estimation
when an object is placed
symmetrically in relation to

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the viewpoint, this study also proposes an MVFH descriptor that consists of two parts: a surface shape component that comprises an extended FPFH and an extended viewpoint direction component.

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Typically, such applications utilize sensor systems which allow for the generation of 3D data and perform matching in 3D space. Another way to determine the 3D pose of an object is to estimate the projection of the object location in 3D space onto a 2D camera image. ... "Three-

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The proposed object recognition system is composed of three stages: feature extraction, feature matching, and significance testing. For feature extraction, the conventional 2-D Gabor filtering²⁷⁻²⁹ is extended to 3-D space in order to analyze volume data. A Gabor feature is a multiresolution representation of object structure and energy in the spatial-frequency domain. Three-dimensional Gabor

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segmentation in the presence
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present a novel 3D model-
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potential to achieve better
accuracy than its 2D
counterpart by measuring
geometry of rigid features
on the face. This avoids
such pitfalls of 2D face
recognition algorithms as
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