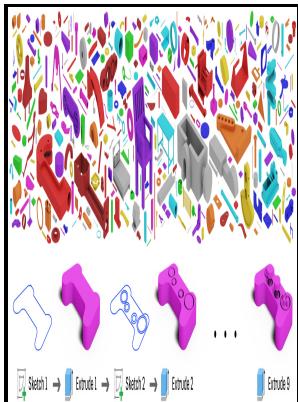


Implicit model matching as an approach to three-dimensional object recognition

Trinity College, Department of Computer Science - Surface matching for object recognition in complex three



Description: -

- Optical pattern recognition. Implicit model matching as an approach to three-dimensional object recognition

- Technical report (Trinity College Dublin. Department of Computer Science) -- 91-07. Implicit model matching as an approach to three-dimensional object recognition

Notes: Bibl.

This edition was published in 1991



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Surface matching for object recognition in complex three

The range data of a scene are obtained by a range finder.

An Implicit Shape Model for Combined Object Categorization and Segmentation

In addition, we present an extensive evaluation of our method on a standard dataset for car detection and compare its performance to existing methods from the literature. This paper proposes an efficient method to recognize rigid flat objects from its intensity images which are assumed to be arbitrarily positioned in space. In Tenth International Workshop on Artificial Intelligence and Statistics, 2005.

An Implicit Shape Model for Combined Object Categorization and Segmentation

This article introduces a novel representation for three-dimensional 3D objects in terms of local affine-invariant descriptors of their images and the spatial relationships between the corresponding surface patches. This algorithm was described in the article by Jan Knopp, Mukta Prasad, Geert Willems, Radu Timofte, and Luc Van Gool.

Surface matching for object recognition in complex three

This algorithm is a combination of generalized Hough transform and the Bag of Features approach and its purpose is as follows. Seven discrete moments are used here as global features which are also invariant under the affine transformation.

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