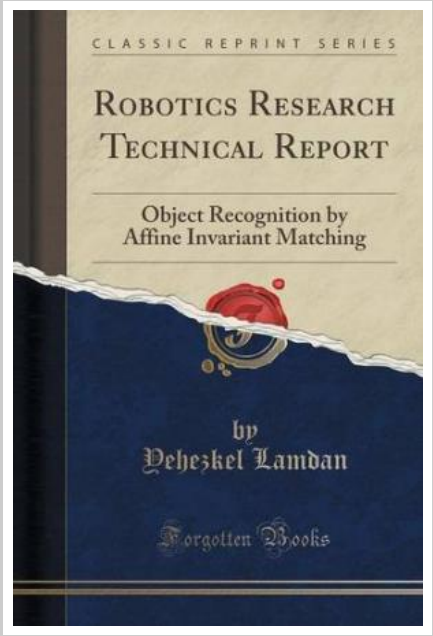

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Robotics Research Technical Report: Object Recognition by Affine Invariant Matching (Classic Reprint)

By Yehezkel Lamdan

Forgotten Books, United States, 2015. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book ***** Print on Demand *****.Excerpt from Robotics Research Technical Report: Object Recognition by Affine Invariant Matching Abstract. We describe new techniques for model-based recognition of 3-D objects from unknown viewpoints using single gray scale images. The objects in the scene may be overlapping and partially occluded. Efficient matching algorithms, which assume affine approximation to the perspective viewing transformation, are proposed. The presentation is currently restricted to flat rigid 3-D objects. Point, line and curve matching algorithms are presented. The paper especially emphasizes the curve matching problem. Experimental results are included. 1. Introduction. Object recognition is a major task in computer vision. Most practical recognition systems are model-based systems, where the task is to match known models against an image of a scene (see a survey in [1]). In this paper we address the recognition problem of overlapping and partially occluded objects in composite scenes. The 3-D positions of the objects are arbitrary and no restriction on the viewing angle of the camera is assumed. We concentrate on recognition of flat rigid objects. However, our method can be extended to general objects...

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