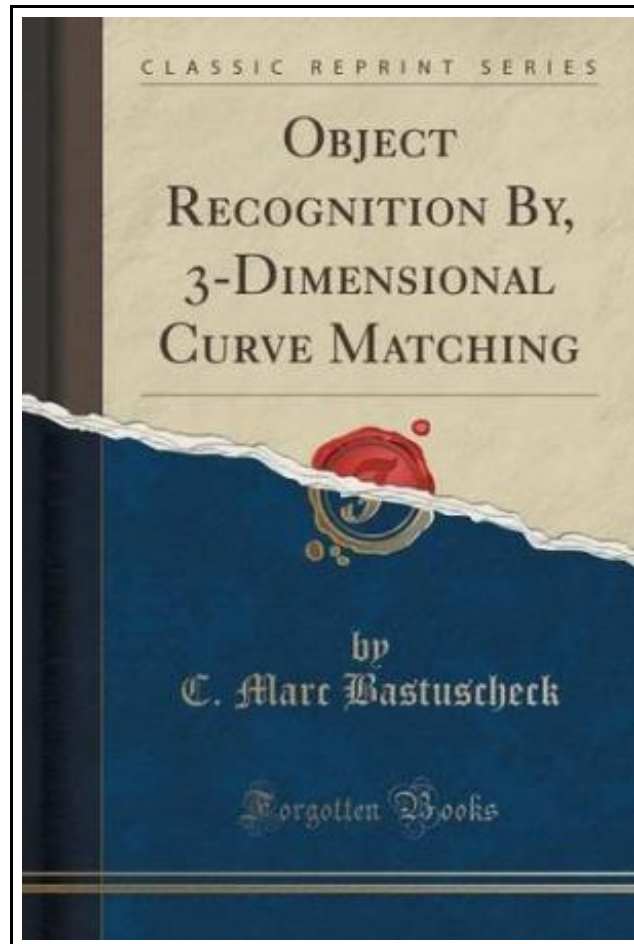# Object Recognition By, 3-Dimensional Curve Matching (Classic Reprint) (Paperback)

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OBJECT RECOGNITION BY, 3-DIMENSIONAL CURVE MATCHING (CLASSIC REPRINT) (PAPERBACK)

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Forgotten Books, United States, 2015. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book ***** Print on Demand *****.Excerpt from Object Recognition By, 3-Dimensional Curve Matching Abstract Experimental results for the recognition of general curves in three space using registered range and intensity images are presented. The matching algorithm uses fast Fourier transforms to determine the least squares difference between sequences of points sampled at equal intervals along two piecewise linear approximations of curves in three-space and returns the rotation and translation required to bring one of the curves into closest juxtaposition with the other. Performance of the algorithm is demonstrated by matching curves in three space which are the boundaries of regions of contrasting reflectivity on curved surfaces. The experiments use a recently developed range sensor which is able to generate a 512 x 460 x 12 bit range image (with registered intensity image) in 40 seconds. 1. Introduction General curves in three-space may be extremely useful as features for object recognition because curves relevant to object shape can be extracted using low level image processing techniques and can be easily stored and manipulated. Examples of curves might be the edges of a pottery shard, the boundaries of a painted design, a line of locally maximum curvature (as at a cheekbone), or the intersection of a wall with a ceiling. The significance of such curves is suggested by the human ability to identify a complex scene from relatively few lines in cartoon sketches. While the full extent to which curves in three-space can be used for object recognition remains to be determined, preliminary experiments presented in this paper demonstrate that 3-D objects can be located and identified on the basis of curves extracted from registered range and intensity images. The matching algorithm used, described...

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