Abstract

The pillar of automatic identification is Barcode technology which is used comprehensively in real time applications with various types of codes. The different types of codes and applications sometimes faces special problems, so the improvement of the effectiveness must be done persistently. This paper's proposal mainly deals with multiple product's barcode to be detected simultaneously. The proposed algorithm which will have implementation for supershop billing system and inventory management. The method will recognize the barcodes using image processing. Images will be taken using mobile camera sensor. It will detect 1D barcodes such as EAN-13 barcodes, Code-128 barcodes, 2D barcodes such as QR codes. Moreover, it will be angle invariant, requires less user interaction than usual and can be executed on available computers. This model helps consumers to minimize the time for the billing system in shopping. We have implemented this in Python IDE using OpenCV library.

References
A Study on Multiple Barcode Detection from an Image in Business System


6. Z. S. D. S. H. Xiaochao Li, "Reconstruct Algorithm of 2D barcode for Reading the QR Code on Cylindrical Surface," The Natural Science Foundation of China.


Index Terms

Computer Science

Image Processing
Keywords

Image processing, barcode, EAN-13, QR code, ZBar.