Barcode Localization and Decoding using a Modified ScanLine Approach for Industrial Nameplate Verification

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Abstract

Increased Automation in the manufacturing sector with the introduction of low cost embedded systems and servo drives has resulted in a substantial increase in the precision and speed of packaged goods output. This increase in speed has rendered manual verification incapable to keep up. Recent developments in the area of computer vision and embedded computing has allowed for replacement of traditional human verification by machine vision systems.

This study aims to implement a robust solution for Barcode Localization and Decoding for an affordable, reliable and industrial solution for a general purpose automated product verification system.

References


**Index Terms**

Computer Science

Pattern Recognition

**Keywords**

Barcode; Decoding; Localization; Scanline; Nameplate; Verification