

CAMERA BASED COLOR IDENTIFICATION USING ROBOTIC ARM

ABSTRACT:

Color is the most common feature to distinguish between objects, sorting, recognizing and tracking. Generally robot is mounted with a camera or the camera is mounted in the workspace to detect the object. This technology can be used in material handling in logistics and packaging industry where the objects moving through a conveyer belt can be separated using a colour detecting robot. In this paper the 'Objrec' algorithm is written in MATLAB for performing the operation. The 'Objrec' algorithm is executed to identify the object and send the appropriate commands to the microcontroller using serial communication for the robot to perform the sorting operation.

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