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Abstract Abstract

Machine vision has been used increasingly in the industrial production lines to inspect the quality of work pieces. Regularly the Charge-coupled device(CCD) of the machine vision and the work piece both are held in stationary positions momentarily in order to take a clear picture for image processing. By doing so, it requires to temporarily stop the flow of work pieces to take clear pictures. This report studies the methods of letting a CCD track the motion of a work piece flowing in the production line. So that machine vision could inspect the quality of work pieces without interrupting their flow in the production line. Experiments have been conducted to verify the feasibility of such an approach. The results show that making CCD to move along with a flowing work piece could obtain similar precision inspection as that of both being stationary. The details of such an approach are addressed in this report.
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