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Abstract
Machine vision together with a robotic arm could form an intelligent system that could recognize a moving object and follow its movement. This research attaches a CCD to a robotic arm to track the movement of a moving object. Three simple prediction methods have used to generate the tracking path of moving object based the images of the moving object grasped by the CCD. Experiments have been conducted to test the tracking results of the prediction methods, where the tracking object has been given different moving paths to examine the feasibility of prediction methods for tracking different movements.
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