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Author Char-Chan Wu
Author's Email Address No Public.
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Abstract
This thesis aims at the design and implementation of a DSP-based two-wheel mobile robot, which the robot intends to drive a ball-picker to collect golf balls hit by players in golf exercise field. A webcam shoots hand gestures of the operator to generate the commands and the PC performs image processing.
The execution of the image recognition of the gesture is divided into the following six steps: (1) fetching the gesture image by way of webcam; (2)getting rid of the object in the background by subtracting; (3) using the complexion to detect the position and area of hands; (4) getting rid of the miscellaneous noise of image information; (5) analyzing the characteristic form of the human palm to get the gesture; (6) transmitting remotely commands to the robot to control its moving direction, advancing, back, turning left, turning right, to achieve the purpose that the ball-picker to collect golf balls.
Keyword：Gesture recognition, image processing.
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