

**Research Title:** Robot Vision Control by Eye Movement Detection

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**ABSTRACT**

If electronic devices are controlled by human's perception, it would be match to user's need. So, researchers have developed the robot vision control system by eye movement detection to make a moveable camera on the robot move like human's eyes. This system consist of 3 parts which is application for image processing, camera for detect eyes, and the robot with moveable camera. The robot also can move. An eyes detection part will send data to application on computer to process eyes image and send the result to control the robot and its camera. Also, the robot's camera will send frame to show on the application. For the best result, researchers have studied and test the image processing in many ways and designed the movement of the robot's camera to be the most similar to the movement of human's eye.

**Keywords :** Eye Tracking, Eye Movement, Robot Vision