

무인차량의 운행을 위한 도로경계 추출방법

(A Road Boundary Detection Method for Autonomous Road Following)

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ABSTRACT

In this paper we describe a road following method for an autonomous vehicle. From a road image in gray level, a road boundary is detected by using Sobel operator, and then the road boundary is converted to orthogonal view of the road showing the vehicle position and heading direction. In this research an efficient road boundary search technique is developed to support real time vehicle control. Also, an obstacle detection method, using images taken from two different positions, has been developed. This method shows the height of the obstacle and the distance from vehicle.