

Obstacle Detection System for Intelligent Highway Vehicles

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Abstract

The purpose of this article is to present the concept of a system capable to locate cars or the obstacle which can appear on the highway. Detection of the road and cars will be made using three cameras for obtaining a large field of view, and also the perspective must be as close as possible to how people see. Because the camera field of view is smaller than of a people, and for obtaining a wide perspective of the road the system has 3 video cameras. The paper proposes two ways to mount the cameras to find out which structure offers images closer to how people see, along with an algorithm for obstacle detection.