

عنوان مقاله:

Design and Real-time control of a self-driving car robot based on image processing

محل انتشار:

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خلاصه مقاله:

Today, the self-driving car industry has made great strides. So far, several companies have succeeded in building these cars. In the not-too-distant future, we will see more self-driving cars on the road. Some estimate that by 2035, most cars will have intelligent control. In this paper, we will first review some important information about car companies and car systems. We also look at the findings of scientists and articles. Finally, using Raspberry Pi and image processing techniques, we design a small sample of a self-driving car. The robot is based on distance detection and color detection. The robot is designed to be able to move on its way without hitting obstacles, and by detecting color pages with the help of the camera, it sends special commands to the engines. The robot is a small example of a self-driving car that is hoped to be used on a larger scale to detect specific city signs or special color symbols.

کلمات کلیدی:

self-driving car, color detection, Raspberry, image processing, robot

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