

網路遠端無線監控系統於自走車之應用

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摘要

The purpose of this thesis is to design an Internet-Based remote and wireless control system for the mobile vehicle by integrating the Internet and RF-Modem. The user can use this system to control the remote machine' s mobile vehicle. The AT89C51 single chip is the control kernel of our mobile vehicle, and it' s main work is to process control codes and transmit impulses to two stepping motors. The control codes are transmitted by the RF-Modem. Therefore, we can command the mobile vehicle to go front or back and turn right or left.

We use the CCD to get the vehicle motion locus images, which are transmitted to remote GUI by Internet. And the user can control the remote machine' s mobile vehicle through the GUI.

關鍵字：remote control

, Internet-Based remote control system , mobile vehicle , wireless control