Abstract

To Design multi-vehicle following control system based on Arduino, we use modularization to design wireless communication, modular infrared eye, hardware motor drive module and other hardware modules. The vehicle self organizing wireless communication network is designed by using XBEE in order to achieve the centralized control of the host computer and complete the adjustment of car speed, vehicle spacing. Use infrared ommateum to complete multi cars following and implement rapidly the vertical line operation mode. [1]

References

   Li Nan Zu, Tian Yan Tao, Hao Mei. Large scale multi mobile robot cooperative task of distribution, autonomy and cooperation system [J]. Robot, 2006, 28 (5). 470-477


**Index Terms**

Computer Science
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**Keywords**

LabVIEW; infrared ommateum; ZigBee; intelligent car control; Queue follower.