2022 年英特尔杯大学生电子设计竞赛嵌入式系统专题邀请赛

参赛队作品简介

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作品题目 （中英文对照）	基于声纹识别的语声控制器 Voice Control System Based on Voiceprint Recognition		

作品简介

　　基于声纹识别的语声控制器，是基于大赛提供 GNS-V40 平台与 Arduino UNO R3 开发板构建的"声纹识别＋语声控制"系统。该控制器的核心功能为接收语音指令，通过声纹识别技术判断语音对应的用户身份，进而决定是否继续进行语义识别，驱动执行机构完成相应的操作。项目系统包含用户终端应用、服务器、硬件网关与管理系统 4 个主要模块，功能可靠，易于部署，具有很高的实用价值。

　　Voice Control System Based on Voiceprint Recognition, is a system combining voiceprint recognition and sound control. Based on gns-v40 platform provided by the competition and Arduino uno R3 development board, the core function of the system is to receive voice instructions, identify the user corresponding to the voice through voiceprint recognition technology, and decide whether to continue semantic recognition and drive the actuator to complete the corresponding operation. The project system includes four main modules: user terminal application, server, hardware gateway and management system. The system is reliable and easy to deploy with toolkits attracting and practical.