

《大学生嵌入式系统专题邀请赛优秀作品选编（第六届）》

书籍信息

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编辑推荐

《大学生嵌入式系统专题邀请赛优秀作品选编(第六届)》参赛作品由学生自主选题、自主设计,主要涉及智能生产与生活、多媒体与人机交互、物联网人性化服务等多个领域,涌现出大量紧密结合行业热点,市场需求的创新设计成果。每篇作品均附有“评审意见”。

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Teaching System Based on the Augmented Reality and Atom

Surface Electromyography Detection and Training System

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An Intelligent Family Health Monitoring System Based on Atom Platform

A Novel PowerPoint Auxiliary Equipment

Wearable Touch Based Human—Computer Interactive System

Sweet Memories of My Childhood——Sugar Painting Robot

AdSkip : A commercial detection technology based on

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Buds——Intelligent Interactive Restaurant Management System Based on Internet of Things

Attractions and Monuments Touring System Based on Google Earth Guitar Robot Driver

Assistance System Based on Imaging Sensor Facial Sketching with a Multi—Joint Robot Arm

Intelligent Trash Can Separator (Inorganic Trash) Video Perception and 3D Visualization of Traffic Conditon Design and Implementation of Foot Legged Lower Limb Rehabilitation Robot Control System Embedded Image Processing——3D Camera Freely 3D on the NIB Atom SmartEye——Intellectual Access Manager Autonomous Control and Advanced Traffic Surveillance Garbage Sorting Robot Supermarket Self—service Shopping System Based on Artificial Intelligence—— Follow Me Sign Language Translator System for Deaf—mute Person Powerful Atom—Hand "Robot7"Intelligent Toy Robot Triphibious Monitoring Platform Based on Intel Atom Platform The Design on the Fingertips——The Interior Design Tour System Based on Intel Atom Platform

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The resulting accuracy is lower than before so with parameter selected we can get higher accuracy.LIBSVM provides a tool to compute them,so we can use the library to get the desirable result.

6 Conclusion

The deaf and the mute have difficulties in communicating with healthy people who don't know sign language.On the other hand,deaf children have learning disabilities.Our system aims to enhance these situations by real-time translating sign language into text or sound with Kinect.We can develop more interesting games to enhance deafchildren's learning abilities.We hope that our system will be able to encourage people to learn more sign language.

(Faculty Mentor: Xu Qiang

Participating institutions: The Chinese University of Hong Kong)

Comments:

The target System uses Intel ATOM platform and Microsoft Kinect as two main parts to compose ofa system which can be used to detect and translate the sign language by disabled people to Chinese words/Sounds.

The system use SVM to_enhance the accuracy ofgestures reorganization,it can distinguish 48 kinds of sign language.

With multi-threaded programing technologies integrated in the project.The application runs in high efficacy.

The demonstration process is clear and success.

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