

[1]朱湘龙,于天朋,侯 师.基于Virtools虚拟训练系统半实物接口设计[J].弹箭与制导学报,2012,6:167-169.

ZHU Xianglong,YU Tianpeng,HOU Shi.The Designof Semi-physical Interface in Virtools Based Virtual Training System [J].,2012,6:167-169.

[点击复制](#)

基于Virtools虚拟训练系统半实物接口设计

《弹箭与制导学报》 [ISSN:1673-9728/CN:61-1234/TJ] 期数: 2012年第6期 页码: 167-169 栏目: 相关技术 出版日期: 2012-12-25

Title: The Designof Semi-physical Interface in Virtools Based Virtual Training System

作者: [朱湘龙¹](#); [于天朋²](#); [侯 师¹](#)
1 北京理工大学,北京 100081;
2 国营304厂,福建三明 365000

Author(s): [ZHU Xianglong¹](#); [YU Tianpeng²](#); [HOU Shi¹](#)
1 Beijing Institute of Technology, Beijing 100081, China;
2 No.304 Factory, Fujian Sanming 365000,China

关键词: [Virtools](#); [回调函数](#); [串口通信模块](#); [半实物接口设计](#); [行为模块\(BB\)](#)

Keywords: [Virtools](#); [callback function](#); [serial communication BB](#); [semi-physical interface](#); [building block](#)

分类号: TJ58

DOI: -

文献标识码: A

摘要: Virtools虚拟视景设计的难点在于半实物接口的设计。为解决这一难点,基于Virtools SDK,通过调用相应的应用程序接口函数(API)创建自定义通信行为模块(BB),实现实物系统与虚拟视景间的通信。利用Virtools SDK回调函数实现半实物接口开关逻辑的正确控制。最后将开发的通信模块整合到虚拟训练系统中,经测试达到了预期的要求。测试结果表明基于Virtools SDK开发半实物接口的方案可行。

Abstract: The difficulty of designing a virtual scene based on Virtools is to design the semi-physical interface. To solve this problem, the Virtools SDK was used for constructing a communication building block(BB)by calling relevant application program interface(API) function to achieve communication between physical system and the virtual scene. Then the Virtools SDK callback function was used to control the switch of the semi-physical interface correctly. At last, the building block was integrated into the virtual scene and our expectation was achieved. The results

❖ [导航/NAVIGATE](#)

[本期目录/Table of Contents](#)

[下一篇/Next Article](#)

[上一篇/Previous Article](#)

❖ [工具/TOOLS](#)

[引用本文的文章/References](#)

[下载 PDF/Download PDF\(643KB\)](#)

[立即打印本文/Print Now](#)

[推荐给朋友/Recommend](#)

❖ [统计/STATISTICS](#)

[摘要浏览/Viewed](#)

[全文下载/Downloads](#) 84

[评论/Comments](#) 20

[RSS](#) [XML](#)

indicate that development of semi-physical interface based on
Virtools' SDK is feasible.