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论文

虚拟现实技术在计算机仿真中的应用探讨

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摘要:

虚拟现实技术是一种基于可计算信息的沉浸式交互环境,通过操作者的视、听、触觉等感官途径,产生身临其境感觉的交互式视景仿真。虚拟现实技术的核心是确立准确的虚拟对象及环境,采用计算机硬件技术及软件处理技术产生具有动态、声像、感知功能的三维空间环境,并使操作者能够进入该环境,直接观测和参与该环境中事物的变化与相互作用。通过对虚拟现实技术和计算机仿真进行比较,阐述了虚拟现实技术应用于计算机仿真的意义,讨论了虚拟现实技术的技术关键。

关键词: 虚拟现实 计算机仿真 交互环境

Application of virtual reality technology in computer simulation

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Abstract:

The virtual reality (VR) technology, based on computable information can generate an immersed interactive environment. The key issue of the VR technology is to precisely establish a model of the virtual objects and environment, simulate the 3D space environment with motion, sound, vision and tactile sense by the aid of the computer hardware and software techniques, and make the user to be affected by the simulated world, allowing him/her to directly view and interact with the varying virtual environment. The VR technology was compared with the computer simulation. The great significance of the application of computer simulation in VR technology is elaborated. The key points of the VR technology is discussed. Some view points about the VR technology are proposed.

Keywords: virtual reality computer simulation interactive environment

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