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Design and Realization of Jiufeng Multimedia Display System

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Abstract. With the continuous development of computer technology, multimedia display technology has been developed further and applied in wider fields. While in terms of landscape, the application of multimedia display technology is still in the preliminary phase. This paper demonstrates and analyzes the application of multimedia system in landscape field with the example of Jiufeng multimedia display system and forwards the construction flow and realization methodology of multimedia display system in landscape field.

1. Significance of Jiufeng Multimedia Display System

Multimedia display system combines techniques and arts, and features direct visual effect and convenience. In addition to meet the audience's demand for audio-visual experience, it also provides the possibility for interactive functions, giving the audience more information, therefore is much more appealing than traditional graphics methods. With the continuous development of computer technology, multimedia display technology has been developed further and applied in wider fields. While in terms of landscape, the application of multimedia display technology is still in the preliminary phase. This paper demonstrates and analyzes the application of multimedia system in landscape field with the example of Jiufeng multimedia display system and forwards the construction flow and realization methodology of multimedia display system in landscape field.

Jiufeng multimedia display system presents the magnificent scenery audience by combining animation with virtual technology, displaying the unique archaic beauty of Jiufeng and bringing rich sensuous enjoyment to the audience. Breaking the limit of time, the audience can enjoy virtually the change of Jiufeng in different seasons. Besides, by using human-computer interaction function, the audience can not only acquire other information, like vegetation characteristics, humanistic knowledge and service facilities, about Jiufeng according to their personal demand, but also ramble around such special scenes as the antique Xiufeng Temple and Earthquake Observation Station in the virtual world, and gain full-round knowledge about Jiufeng. Consequently, the multimedia display system provides ideal effect for display and promotion.

2. Design Scheme and Flow of Jiufeng Multimedia Display System

2.1 Positioning and Content of the System

Jiufeng National Forest Park (hereinafter referred to as Jiufeng) is an AA tourist attraction of China, and features beautiful scenery, rich vegetation, cultural landscape and historical sites. Based on its characteristics, Jiufeng multimedia display system has to convey information in the following aspects: (1) the archaic beauty of Jiufeng; (2) the rich vegetation and the change of the seasons, (3) the historical sites; (4) the science knowledge about the forest park. To realize above purposes, the animation of landscape is made up of two parts: a touring video and a landscape virtual reality for the