

Image-based Rendering

Prof. Jiaoying Shi

State Key Laboratory of Computer Aided Design and Computer Graphics, Zhejiang University
Hangzhou, China

Abstract

In the first part, we give a short survey on Image-based Rendering (IBR), then in the second part we introduce our works in IBR based on slit images. The survey on IBR includes the framework of IBR and the taxonomy of IBR. In the second part we studied the image representation model by using slit image, proposed a concept on analogical slit images and slit image segments. A new correspondence method on slit image segments is proposed. By using our slit image-based rendering method. We introduce two applications. One is to solve depth correction problem of Concentric Mosaics. The second one is the so-called panoramic mosaics of slit images with depth, a paper on which is included in the Proceedings of Graphicon'2000.