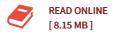




Three-Dimensional Imaging, Visualization, and Display

By Javidi, Bahram / Okano, Fumio

 $Condition: New.\ Publisher/Verlag:\ Springer,\ Berlin\ |\ Here\ is\ an\ up-to-date\ examination\ of\ recent$ developments in 3D imaging, as well as coverage of the prospects and challenges facing 3D moving picture systems and devices, including binocular, multi-view, holographic, and image reproduction techniques. | The history of visual media is characterized by drawing, painting, photo, stereoscope, TV and displays, Holography, and HDTV. Three-dimensional (3-D) imaging, visualization, and display technology is the next phase in this historical development. There is no doubt that 3-DTV and 3-Ddisplayarethe visualmediathatwillsucceedHDTVinnearfuture. The evolutionary merging of communication and broadcast technologies will be enhanced by 3-D vi- alization, including multimedia communication centers which can respond to all the services and functions provided by the future communication systems. Comparison of a scene presented by 2-D and 3-D images reveals that the 3-Dimage providesmuch more pleasing and realisticinformationthan its 2-D version. The bene?ts provided by 3-D images result from the depth infor- tion they preserve.Depth gives viewers the feeling of being in the place where the 3-D image is captured (i.e., immersive feeling) and the feeling of being present (presence feeling). Depth increases e?ciencies in remote site ope- tions, such as remote medical and tele operations, by making viewers perceive the scene as $\frac{1}{2}$ more real from within their living environments. The accuracy and the presence feeling are the main motives of demands for 3-Dimages in the areasofcommunication, broadcasting, entertainment, medical operations, v-tual world presentations, advertisement, training, edutainment (education + entertainment),...



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