

Three-Dimensional Imaging, Visualization, and Display

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Reviews

It is really an remarkable book which i have ever go through. It can be writter in simple terms and not difficult to understand. I am just effortlessly can get a enjoyment of reading a composed pdf. (Dr. Lily Wunsch II)

THREE-DIMENSIONAL IMAGING, VISUALIZATION, AND DISPLAY



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. Threedimensional (3-D) imaging, visualization, and display technology is the next phase in this historicaldevelopment. There is no doubt that 3-DTV and 3-Ddisplayarethe visualmediathatwillsucceedHDTVinnearfuture.Theevolutionarymerging 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 realisticinformation than 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 remotemedical and tele operations, by making viewers perceive the scene as more real their living environments. The accuracy andthepresencefeelingarethemainmotivesofdemandsfor3-Dimagesinthe from within areasofcommunication, broadcasting, entertainment, medical operations, v- tual world presentations, advertisement, training, edutainment (education + entertainment), telemarketing, tele-presence, tele-conference, visualization of experimental results, and so on. | Part 1: Stereoscopic, multi-view.- Naturalness and presence on stereoscopic image.- Repeated Vergence Adaptation Causes the Decline of Visual Functions in Watching Stereoscopic Television.- Large LED screen television system without eyewear.- Depth resolution and displayable depth of a scene in 3D images.-Part 2: Multi-view, integral imaging.- Flat-panel autostereoscopic view-sequential 3D display backlight.- High-density Directional Display for Generating Natural Three-dimensional Images.- Integral imaging with high depth of field.- Real-time integral imaging using high resolution video system with 8 million pixels.- Part 3: Holographic imaging.- Generation of holograms using integral photography.-...

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