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## 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-D TV and 3-D display are the visual media that will succeed HDTV in the near future. The evolutionary merging of communication and broadcast technologies will be enhanced by 3-D visualization, 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-D image provides much more pleasing and realistic information than its 2-D version. The benefits provided by 3-D images result from the depth information 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 efficiencies in remote site operations, such as remote medical and teleoperations, by making viewers perceive the scene as more real from within their living environments. The accuracy and the presence feeling are the main motives of demands for 3-D images in the areas of communication, broadcasting, entertainment, medical operations, virtual world presentations, advertisement, training, edutainment (education + entertainment),...



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