

A Study on stereoscopic representation of 3D X-ray CT data using motion capture

Saturday, 13 November 2021 11:45 (15 minutes)

3D X-ray CT is currently used in various situations to obtain information of the internal structure of objects that are invisible to the human eye. The internal structure of obtained from 3D X-ray CT is grasped by observer sterically, such as its size in length, width, and depth. Although, methods for expressing information are not progressed as 2D images of cross sections despite the progress in research on the representation of 3D images. A system that uses a spatial reproduction display for represent data captured by 3D X-ray CT, and mount a motion capture to enable rotation and display at any cross-sectional angle is proposed. When it combined with motion capture, it allows the observer to observe the internal structure of an object from any perspective, as if they were grabbing and moving the object itself.

Topics

Session C. Applied optics and engineering

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Session Classification: Saturday Session