Free-view Video Communication Using Multiple Color-depth Cameras

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We aim at developing a system that can deliver both 3D and free-view experiences to the end user. The system consists of a server and a client. At the server side, two color-depth cameras (Kinect) are used to capture the scene. The captured contents are compressed and transmitted over the internet to the client. At the client side, the system detects the head position of the viewer, and displays the corresponding view to create the free-view experience. To enhance the immersive feeling, the system will display the scene in 3D mode.