

I-DEMO proposal for IDW '22

1. Submission number

C000999

2. Paper Title

360-degree Augmented Reality Visualization for AR Tour

3. Presenter's name

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4. Presenter's affiliation

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5. Summary

We will demonstrate our innovative Augmented Reality touring system that shows augmented 360-degree picture to its user via HMD. The demo system consists of a computer and an HMD as shown in Fig. 1 (a). The system first enhances the original 360-degree photo using some Deep Learning technique (Fig. 1 (b)). The user views the enhanced photo via HMD (Fig. 1 (c)). Our demo is the first AR system that introduces deep learning based image enhancement. The audiences can enjoy how deep learning technique is utilized to enrich AR experiences.

6. Representative picture(s)



(a) The demo system

(b) 360 degree picture

(c) AR view

Figure 1. Overview of our demo. (a) A user wearing an HMD in the demo environment, (b) A 360-degree picture, (c) AR view.

7. URL(s) of your demo video

None

8. Special requests

None