

I⁴D proposal for IDW '24

1. Title of demo

360-degree Augmented Reality Visualization for AR Tour

2. KOSEN name

ABC Technical College

3. Team (Lab or Club) name

Science Club

Note: Write laboratory or club name if your team is from a single laboratory or club.

4. Team members

Name		Affiliation (Lab/Club, KOSEN)	School grade if student	Presenter? (o or x)
First	Last			
Alex	Smith	Science Club, ABC Technical College	3	O
Mary	White	Science Club, ABC Technical College	2	O
Taro	Yamada	Science Club, ABC Technical College	2	X

Note: Write o if the member will be participating in the demonstration in-person.

5. Contact persons

	Name		E-mail address
	First	Last	
Team Leader	Alex	Smith	asmith@gmail.com
Liaison Professor	Qinn	Tanaka	qtanaka@abc-k.ac.jp

6. Summary (100 words for English, 日本語は 300 文字)

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.

7. (Optional) Representative picture(s)

Put representative picture(s) of your demo. Those pictures can be either real pictures or sketches of your demo.



(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.

8. (Optional) URL(s) of your demo video

Write a list of URL(s) if your demo video is available online.