

Markerless Mixed Reality

Mixed Reality MR, sometimes also referred to as Augmented Reality (AR), helps to project useful information or graphics onto a real scene seen through a camera or smart glasses. MR/AR is most versatile when there is neither a need to paste any marker in the scene nor requiring the real-life object to be a flat plane such as a poster.

Realistic MR/AR also needs to be responsive to geometrical changes in the video due to the moving camera. The graphics object needs to be added to the video in a geometrically correct and coherent way.

NUS has developed the technology to perform this type of geometrically responsive MR/AR with real time performance even on normal mobile phones.



Features

- Markerless
- Does not require the objects in the scene to be flat
- Achieves real-time performance on normal consumer cell phones.

Applications



- Entertainment
- Tourism
- Security
- Building Maintenance
- etc.



Benefits

- Enhanced digital experience
- Better learning outcome
- Higher productivity
- Nimbler in updating content
- etc.

