Knowledge Transfer Office
香港城市大學
City University of Hong Kong

Technology Brief of CityU's IP

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- A Method of Enabling Gesture-based Interaction on the Surface of Low-cost VR Head-Mounted Display (IDF#945, US 63/165,892)

專業 創新 胸懷全球
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A Method of Enabling Gesture-based Interaction on the Surface of Low-cost VR Head-Mounted Display

- Low-cost mobile VR headsets like Google Cardboard have largely increased the accessibility of immersive VR, but are still limited in head-rotation-based interaction

- GestOnHMD: a gesture-based interaction technique for VR headsets enabled by deep neural networks and processes the acoustic signals of gestures in time and frequency domains

https://youtu.be/x5xGJ5PWXk0

A Method of Enabling Gesture-based Interaction on the Surface of Low-cost VR Head-Mounted Display

Advantages:

- Simply implemented by embedded software without additional hardware assistance
- The recognition gestures are very user-friendly
- Implementable to various kinds of VR headsets or relevant devices

Applications:

- Headsets or relevant devices for Virtual Reality (VR)
- Gaming, Entertainment, Retail and Multi-media applications

Thank you!

Q & A