

Virtual Reality and Big Data Analytics

QESS – Quarterly Progress News Update

Newsletter #5: 1 December 2016 – 28 February 2017

Project: The development of an education and research center with automatic virtual reality platform for 3D interactive learning and big data analytics



Project Highlights

December 2016

- ✓ **1.12.2016 – 16.12.2016** – Graduates from Hang Seng Management College visited the VRBD Centre after their graduation ceremony on 1 December 2016. Delegates from Malaysian Private Tertiary Institutions Study Mission (大馬民辦高校香港高等教育考察團), Museum artists, Chinese University of Hong Kong and Joint Publishing Hong Kong (三聯書店) visited VRBD Centre. Demonstrations on developed VR projects were carried out.
- ✓ **20.12.2016** – Completion on inner pages of website, including About Us, Virtual Reality, Big Data, News, Useful Links and Contacts.
- ✓ **28.12.2016** – Completion of air cargo terminal scenes. 3D design and modelling on inner outlook of aircraft was conducted (Figure 1). Movable workstation for air cargo loading was drawn.
- ✓ **30.12.2016** – Air cargo load planning optimisation tool and its visualisation in VR were investigated.

January 2017

- ✓ **8.1.2017** – The work of Virtual Reality project, Development of Immersive Virtual Reality System for Planning of Cargo Loading Operations, was presented in the ICVAR 2017: 19th International Conference on Virtual and Augmented Reality in Singapore. A best presentation award was received (Figure 2 and Figure 3).
- ✓ **27.1.2017** – A presentation and demonstration have been carried out during the visit from delegates of Education Bureau (Figure 4 and Figure 5).
- ✓ **11.1.2017 – 17.1.2017** – 3 delegates from Peter F Drucker Academy, and 3 Principals and teachers from secondary schools visited the VRBD Centre.
- ✓ **28.1.2017** – Over 600 visitors experienced the VR system, including local guests, overseas scholars, academics, staff, students, industry practitioners, association representatives and the general public.

February 2017

- ✓ **10.2.2016 – 28.2.2017** – 60 students from Ning Po College (寧波公學), 15 guests invited by Executive Development Centre (EDC), 26 students from Ma On Shan Tsung Tsin Secondary School (馬鞍山崇真中學), and a guest from XEX art design company visited VRBD Centre.
- ✓ **12.2.2017** – A VR scene with container terminal, crane and container vessel has been developed for students to learn container stowage operations in shipping and transport logistics.
- ✓ **28.2.2017** – Mr. Chris Cheung, Creative Director from XEX has visited the centre and discussed collaboration opportunities.

What's next? 3D design and drawings on over-size air cargo; integration of loading plan simulation and VR scene and enrichment of teaching content.

Enquiries:

Dr. Eugene Wong; Dr. Daniel Mo; Mr TY Ng
E-mail: vrbd@hsmc.edu.hk
Website: vrbd.hsmc.edu.hk