

Virtual Reality and Big Data Analytics



QESS – Quarterly Progress News Update

Newsletter #3: 1 June 2016 – 31 August 2016

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

Project Highlights

June 2016

- ✓ **10.6.2016** – Completion of 3D Model Building on Unit Load Devices (ULD), for example, Q6 and Q7 ULD (Figure 1).
- ✓ **23.6.2016** – Demonstration of Virtual Reality (VR) system to 18 secondary school students visiting the VRBD Centre (Figure 2).
- ✓ **23.6.2016** – Meeting on the cargo loading plan logic for project development.
- ✓ **30.6.2016** – Visit of Mr. Harry Li, Chairman of Institute of Industrial & Systems Engineers (Hong Kong), to VRBD Centre.

July 2016

- ✓ **17.7.2016** – A conference paper, “Development of Immersive Virtual Reality System for Planning of Cargo Loading Operations”, was accepted by 19th International Conference on Virtual and Augmented Reality (ICVAR 2017), to be held in Singapore on 8-9 January 2017.
- ✓ **19.7.2016** – Delegates from A.T. Watsons visited VRBD Centre.
- ✓ **19.7.2016** – Representative from Pneumoconiosis Compensation Board visited VRBD Centre.
- ✓ **20.7.2016** – Meeting with five representatives (Cargo Hub Services, Cargo Services, Training Services) of Cathay Pacific Airways in Cathay Pacific City about the content and logic of VR scenes.

August 2016

- ✓ **4.8.2016** – 10 secondary school students visited VRBD Centre.
- ✓ **11.8.2016** – Meeting with Mr. Philip Kong, COO, Ms. Fiona Chen, VP and Ms. Lily Gong, Sales Manager of 3Glasses at their Shenzhen Headquarter.
- ✓ **16.8.2016** – Visit to CPSL Air Side for data collection (Figure 4).
- ✓ **16.8.2016** – Demonstration of VR System to SCM graduates and alumni.
- ✓ **16.8.2016** – VR System was used in teaching air cargo terminal operations in the module of Shipping and Transport Logistics (SCM4202) (Figure 5).
- ✓ **25.8.2016 – 31.8.2016** – Delegates from the Department of Civil Engineering in HKU, Ho Nam Officials, Swire Beverage, K K Property and Hong Kong Young Industrialists Council visited VRBD Centre.

What's next? Opening Ceremony of VRBD Centre; VR Forum; 3D design and drawings on 747-8F aircrafts and air terminal; and loading plan simulation development.

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