

**Organizer**



**CPD Function**

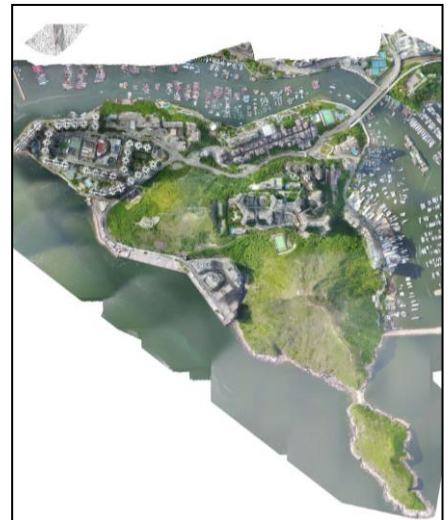
***New 3D Surveying by UAS, Photogrammetry and LIDAR Scanning***

<b>Organizers:</b>	<b>The Hong Kong Institution of Engineering Surveyors (HKIES)</b>
<b>Supporting Organization:</b>	<b>Australian Institute of Building (AIB) Asian Institute of Building (AIOB) Dept. of Land Surveying and Geo-Informatics, HK PolyU (LSGI) Hong Kong Construction Arbitration Centre (HKCAC)</b>
<b>Speakers:</b>	<b>Mr. Thomas Lee, Star Vision Limited</b>
<b>Date:</b>	<b>30-08-2017 (Wednesday) Time: 19:00 - 20:30 (1.5 hours)</b>
<b>Venue:</b>	<b>HJ302, The Hong Kong Polytechnic University</b>
<b>Language:</b>	<b>Cantonese (Supplement with English material)</b>
<b>Admission:</b>	<b>Free of charge (priority will be given to members of HKIES and supporting organization)</b>

[CPD cert. would be issued to attendants, \$20 for HKIES and supporting organizations, and \$80 for walk-in-guests. **No change will be given**]

**Abstract:**

In the era of rapid changes in scientific information technology, traditional mapping technology has become increasingly unable to meet the number of geographic information acquisition and the accuracy of the demand. It is embodied in the following aspects: the data update is slow, the field measurement is time-consuming and requires a lot of manpower; the amount of information obtained is small, even if the vehicle is used in the laser radar scanning system, the cloud information is limited to the road and the surrounding small area, cannot cover the whole city; cannot produce true vertical view photo(true orthophoto), cannot solve the shadow and occlusion of the aerial photo. Star Vision Ltd. was granted by the Hong Kong Special Administrative Region in 2015 Innovation and Technology Commission innovation and technology funds, and successfully developed unmanned three-dimensional mapping system.



The system uses UAV automatic flight technology, the use of unmanned airborne laser radar scanning system, successfully solved the traditional LIDAR scanning system information coverage of small problems. And the use of the latest photogrammetric modelling technology is successfully producing a wide range of multi-scale images. The system really realizes fast urban

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modelling. Only a team can complete within a day 10 square kilometres range of scanning, 100 days to complete the area of 1000 square kilometres of the city scan. More teams can simultaneously reduce the scan time. It is able to update the city information once every three months. The system has been tested successfully in Hong Kong and Macau, and the test results will be shared in this paper.

Star Vision Ltd. has launched a series of products and services, hope that this new system can help more people to solve the wisdom of the city and the city large data collection problems. Products include true image (SVMMap-Image), 3D point cloud, 3D grid and so on. At the same time, SVL introduce certificate training on three-dimensional mapping technology around the world of surveying and mapping organization for the local and international business.

All members and guests are welcome and the number of participants is limited to **100** Participants will be accepted on a first come first served basis. For enquiries, please contact Mr. Alan Hung (Tel: 60906766), or email to: [cpd@hkies.org.hk](mailto:cpd@hkies.org.hk).

**Disclaimer:** The Organizers have not arranged any insurance coverage for any participants on any personal accident, property loss/damage or virus inflection arising from this CPD function. Participants should make their own insurance arrangement at their expenses.

## Reply Form

### Reply Form

I, \_\_\_\_\_, confirm my intention to attend the CPD Function on **30-08-2017 (Wed)**.

My Membership of HKIES / \_\_\_\_\_ is No. \_\_\_\_\_.

My telephone no. is \_\_\_\_\_ and e-mail address is \_\_\_\_\_.

I would / would not \* obtain the CPD certificate.

\*delete as inappropriate

Please email this reply form to [cpd@hkies.org.hk](mailto:cpd@hkies.org.hk) for registration.

[Successful applicants will receive a confirmation email]

### **Supporting Organizations:**



DEPARTMENT OF  
LAND SURVEYING AND GEO-INFORMATICS  
土地測量及地理資訊學系

