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## Geotechnical Applications of Photogrammetry and LiDAR: Opportunities and Practical Constraints with examples from Hong Kong, UAE and elsewhere

*Presented by Andy Hansen*

**Date:** 25 June 2019 (Tuesday)  
**Time:** 19:00 – 20:30  
**Venue:** Seminar Room, Craigengower Cricket Club, Happy Valley  
**Fee:** Free of Charge

Prior registration is not required. For enquiry, please contact Miss Trudy Kwong at [tkwong@bmintelligence.com](mailto:tkwong@bmintelligence.com)

### **Synopsis:**

We often hear about new developments in data capture for terrain information covering both platforms such as drones, and sensors including LiDAR and digital aerial photography. This talk goes beyond data capture to look at some case studies of how the raw image and point data can be converted into 3D models and then measured and interpreted to extract useful geological and geomorphological information.

While focusing on two case studies from Hong Kong and the UAE, together with shorter examples from around the world, the discussion will include processing options and potential pitfalls with the data capture and processing that should be considered when using the final results.

### **About the Speaker:**

Dr Andy Hansen is a consulting engineering geomorphologist with more than 40 years' experience in the academic, public and private sectors. Developed from a background in API and geomorphological mapping, Andy is interested in the application of photogrammetric and GIS systems to solving geotechnical and Earth Science problems.