



AGS (HK) Technical Seminar

Advanced InSAR & Data Analytics to Support Civil Engineering Project for Risk Reduction on Construction Sites and Long-term Maintenance on Assets

by

Blanca Payas Puigarnau

(SIXENSE - Satellite Monitoring Solutions for Infrastructures and Assets)

Date : Thursday, 25 April 2024

Time : 18:45 – 19:45 (Hong Kong Time)

Venue : The webinar will be conducted in hybrid mode, on Zoom platform and at Arup Hong Kong Office (Level 5, Festival Walk, 80 Tat Chee Avenue, Kowloon Tong, Kowloon, Hong Kong).

Enquiry : agshk.org@gmail.com

Fee :

- Free of charge: for all Zoom's attendance and AGS HK member joining f2f meeting.
- HKD 20: for Non AGS HK member joining f2f meeting (payment upon registration and refund will be made to non-successful applicants)

Registration : Please indicate your attendance mode in registration link.

<https://www.ags-hk.org/event-details/advanced-insar-data-analytics-to-support-civil-engineering-project>

Please register by 23 January 2024 17:30. Successful applicants will receive webinar details after registration. CPD certificate will be sent to the attendees, who attended more than 80% of the webinar time, within 2 weeks after the webinar.

(The participants to attend the seminar in person (f2f) is limited to 40 and separate emails will be sent to successful f2f registration with further details.)

Book Prize : Professionals under 35 years of age are encouraged to submit a Book Prize Report (max. 500 words) on webinars and site visits arranged by AGS (HK).

Contributors to successful Book Prize Reports will be awarded a Book Prize that comprises of a book "Geology of Site Investigation Boreholes in Hong Kong" written by Chris Fletcher, and a coupon of HK\$500 for Eslite Spectrum (誠品生活) or equivalent. The successful Book Prize Report will also be published on the AGS (HK) website to showcase your accomplishment.



香港岩土及岩土環境工程專業協會
ASSOCIATION OF GEOTECHNICAL &
GEOENVIRONMENTAL SPECIALISTS (HONG KONG)

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Prior to report submission, please refer to the “The AGS Book Prize Reports – Assessment Framework”* on the AGS (HK) website. You may submit your Book Prize Report to our assessors by uploading the report file through the AGS (HK) website at <https://www.ags-hk.org/book-prize>. Should you have any questions, please contact us at agshk@meinhardt.com.hk.

*Link to the AGS Book Prize Reports – Assessment Framework:
https://www.ags-hk.org/files/ugd/521a4c_b94496034732484687441cf4ed4d0bf9.pdf

Synopsis:

Satellite data have been publicly available since the early 1970s, but only recently have reached the resolution, repeatability, and cost to enable them to be used routinely in civil engineering application. Interferometric Synthetic Aperture Radar (InSAR) merits particular attention as a technique useful for identifying and monitoring movements of the ground and assets.

The speaker will share insights about InSAR and about how this satellite remote sensing technology has become a commodity in infrastructure monitoring worldwide. Several case studies will be presented and will focus on the use of SAR High-resolution data for risk reduction and maintenance monitoring.

About the Speaker:

Blanca Payas Puigarnau. With a degree in Physical Geography and a Master’s in Satellite Remote Sensing, Blanca has more than 20 years of experience in Earth Observation applied to different sectors, such as: Oil & Gas, Mining, Civil Engineering, Natural Disasters and Risk Reduction.

She has developed her career in several companies in the Space and in the Instrumentation and Monitoring sector; often her work has involved monitoring open-pit and underground mines where she has been involved on many Satellite monitoring projects. She is currently the director of Sixense Satellite based in Barcelona (Spain) but servicing projects worldwide.