

SISV Seminar Modern Applications of GIS & Photogrammetry Services

SISV Training Room
110 Middle Road #09-00 Chiat Hong Building
Saturday, 5 Aug 2017, 9am-12.30pm

Program

8.45am	Registration
9.00am	Opening by LS President
9.10am	Synthetic Aperture Radar (SAR) Interferometry: Measuring Millimeter Displacement from the Space by Dr Wang Teng
10.00am	Session 1 Q&A
10.10am	Tea Break
10.40am	Cognition, Perception and Behaviour in Urban Environments by Dr Li Hengshan
11.30pm	Q&A
11.40pm	From Digital Photography into 3D Reality Model by Mr Jude Lim
12.30pm	End of Seminar

Fees/Category (incl. GST and light refreshment)

\$20.00	– Student Members
\$40.00	– Tech. Members
\$60.00	– SISV Fellows / Members
\$70.00	– SISV Probationers & Staff of member firms
\$90.00	– Non-member

A \$10 surcharge will apply to any registration received after the closing date.

Closing date for registration: *Wednesday, 2 Aug 2017*

CPD Credit: 4 Units under survey related activity (A2)
(Applicable to LS members and Registered Surveyor)



Land Surveying Division

Synopsis

Topic 1: Synthetic Aperture Radar (SAR) Interferometry: Measuring Millimeter Displacement from Space

Synthetic aperture radar (SAR) imagery is a powerful remote-sensing tool that allows for mapping surface displacement with the resolution of a few meters. Because of its day-and-night and all-weather imaging capability, SAR imagery provides essential geodetic measurements in many scenarios. Here I will present the basic ideas of the latest SAR technologies and applications. Particularly, I will share the stories of how to measure millimeter displacement such as that from urban subsidence, dam shaking and landslides from the space-borne imaging radar.

Topic 2: Cognition, Perception and Behaviour in Urban Environments

Fostering the well-being of a city's inhabitants requires that architects and planners increasingly take an empirical, evidence-based approach for the design of future cities. Cognitive science and behavioural research can provide the necessary theories and methods to inform such novel designs. Relevant psychological factors include human well-being, emotional appraisal of the environment, and activity patterns and movement through the city. The present project addresses the manner in which people perceive and process spatial information during pedestrian wayfinding within and between connected building structures. This project's approach will ensure a combination of both scientifically grounded, generalisable findings and direct applicability to upcoming design projects in Singapore.

Topic 3: From Digital Photography into 3D Reality Model

How digital photograph can now bring to you 3D reality model which includes data for area, distance & volume calculation.

About the Speakers

Dr Wang Teng: Senior Research Fellow, Earth Observatory of Singapore, NTU

Dr.Teng Wang holds Ph.D. degrees in remote sensing from the Wuhan University and the Politecnico di Milano, Milan Italy in 2010. From 2010-2016, he had worked as a post-doc researchers at King Abdullah University of Science and Technology (KAUST), Thuwal, Saudi Arabia and South Methodist University, Dallas, Texas. His research interests include radar remote sensing technology and its applications in civil engineering and geosciences. He has published over 20 papers including Science, Nature Geoscience and Nature Communications. Dr. Wang received the IEEE JSTARS best paper award in 2012.

Dr Li Hengshan: Postdoctoral researcher at the Future Cities Laboratory (FCL) at the Singapore-ETH Centre

Hengshan is a postdoctoral researcher at the Future Cities Laboratory (FCL) at the Singapore-ETH Centre. As a cognitive psychologist with GIS background, Hengshan holds a Ph.D. degree in Spatial Information Science and Engineering from the University of Maine, received his M.S. and B.S. in Cartography and GIS from Wuhan University (Wuhan, China) in 2006 and 2003.

Mr Jude Lim: Operation & Sales Director, GuruRealiti

Jude has been in the industry of 3D reality modelling since 2015 when the software was entering the Asian market. He excels in the area of operational data capture to produce an enhanced 3D reality model. Prior to heading GuruRealiti, he had extensive exposure in the area of specialist logistics in the field of health & life science, oil and energy for 15 years. He had also headed sales team across Asia and lead various training for clients in this faculty as well.



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Notes

Registration is on a first-come-first-served basis.
Confirmation of registration will be given via email.
No cancellation is allowed once registration is confirmed.

A \$10 surcharge will apply to all registrations received after the closing date.

Fees paid are not refundable under all circumstances. This will also apply to participants who are unable to attend on that day. However, replacement by another individual is allowed and notification must be made in writing at least 3 day before the event. In the case of a non-member replacing a member, the non-member will have to pay the fee difference.

The Organiser reserves the right to alter the programme or cancel the event as may be necessary. Every effort will be made to inform participants. However, in the event of cancellation, full refund will be made to participants.

For enquiries, contact:

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REGISTRATION FORM

Name of Participants

	Name	Category*	Email Address	AmtS\$
1				
2				
3				
4				
TOTAL AMOUNT PAYABLE S\$				

*Category – please state SISV / MemFirm / NM

Company

Address S()

Tel Contact Person

Fax Email

PAYMENT MODE

(please tick one box only)

By cheque (Bank/Cheque No Amt S\$.....)
Crossed cheque payable to **“Singapore Institute of Surveyors and Valuers”**. Please indicate your name, company and date of event on the back of the cheque.

To send invoice to company

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