

CUHK/DLR/CASM Joint International Workshop on InSAR Technologies for Urban Infrastructural Health Diagnosis

Program

(updated on 9 January 2017)

Tutorial	
17 January 2017 (Tuesday)	
Venue: Room 303, Fok Ying Tung Remote Sensing Science Building, The Chinese University of Hong Kong	
9:00-9:15	Registration
9:15-9:30	Opening Remarks and Group Photo Taking
9:30-11:00	T1: SAR Interferometry <i>by Prof. Richard Bamler, DLR</i>
11:00-11:20	Tea Break
11:20-12:50	T1: SAR Interferometry <i>by Prof. Richard Bamler, DLR</i>
12:50-14:15	Lunch (Restaurant: Staff Canteen of New Asia College, The Chinese University of Hong Kong)
14:15-15:15	T1: SAR Interferometry <i>by Prof. Richard Bamler, DLR</i>
15:15-15:35	Tea Break
15:35-16:50	T2: Introduction into SAR Interferometry and Persistent Scatterer InSAR <i>by Dr. Alessandro Ferretti, TRE ALTAMIRA</i>
16:50-17:10	Tea Break
17:10-18:25	T2: Introduction into SAR Interferometry and Persistent Scatterer InSAR <i>by Dr. Alessandro Ferretti, TRE ALTAMIRA</i>

Workshop

Day 1: 18 January 2017 (Wednesday)

Venue: Room 303, Fok Ying Tung Remote Sensing Science Building,
The Chinese University of Hong Kong

9:00-9:15	Registration
9:15-9:40	Opening Ceremony and Group Photo Taking
Keynote Speech Session (Chair: Prof. Hui Lin)	
9:40-10:20	<u>Keynote Speech 1</u> Problems and Demands Analysis of Public Security for Megacity <i>by Prof. Renzhong Guo, Urban Planning, Land & Resource Commission of Shenzhen Municipality</i>
10:20-11:00	<u>Keynote Speech 2</u> Recent Advances in Spaceborne SAR Interferometry at DLR <i>by Prof. Richard Bamler, DLR</i>
11:00-11:20	Tea Break
11:20-12:00	<u>Keynote Speech 3</u> InSAR Ground Motion Service for Germany – Political and Earth Science’s Share <i>by Mr. Nico Adam, DLR and Prof. Thomas Lege, BGR</i>
12:00-12:40	<u>Keynote Speech 4</u> Monitoring Mega Bridges with Ground Based Radar System <i>by Prof. Xiaoli Ding, The Hong Kong Polytechnic University</i>
12:40-14:20	Lunch (Restaurant: Staff Canteen of New Asia College, The Chinese University of Hong Kong)
Oral Session (Chair: Prof. Fulong Chen)	
14:20-14:40	Applications of the MetaSensing's FastGBSAR for Vibration and Deformation Monitoring <i>by Adriano Meta, Metasensing BV</i>
14:40-15:00	Structure Health Monitoring for Urban Infrastructures with TerraSAR-X Images <i>by Xiaoqiong Qin, Wuhan University</i>
15:00-15:20	Height Extraction and Deformation Monitoring of Lupu Bridge in Shanghai <i>by Jingwen Zhao, Tongji University</i>
15:20-15:40	Risk Monitoring and Sustainable Conservation of Heritage Sites by MT-InSAR Tools <i>by Fulong Chen, Institute of Remote Sensing and Digital Earth, Chinese Academy of Sciences</i>

15:40-16:00	Tea Break
16:00-17:30	Panel Discussion <i>(Chair: Prof. Richard Bamler, Mr. Nico Adam, Prof. Thomas Lege, Dr. Alessandro Ferretti, Prof. Xiaoli Ding)</i>
18:00-20:30	Welcome Dinner and Victoria Harbour Tour (Restaurant: Serenade Chinese Restaurant, 2/F, Hong Kong Cultural Centre, 10 Salisbury Road, Tsim Sha Tsui)
Day 2: 19 January 2017 (Thursday)	
Keynote Speech Session (Chair: Prof. Mingsheng Liao)	
9:00-9:40	<u>Keynote Speech 5</u> Infrastructure Monitoring Using InSAR Is More Than Colored Dots <i>by Prof. Ramon Hanssen, TU Delft</i>
9:40-10:20	<u>Keynote Speech 6</u> Advanced Deformation Monitoring: Spaceborne Multidimensional SAR Imaging and Ground-based Interferometry <i>by Prof. Fabrizio Lombardini, University of Pisa</i>
10:20-10:40	Tea Break
10:40-11:20	<u>Keynote Speech 7</u> PSP SAR Interferometry for Building and Infrastructure Monitoring: Results with COSMO-SkyMed Data, and Analysis of Potentials and Limitations of Different Satellite SAR Missions <i>by Dr. Mario Costantini, e-GEOS</i>
11:20-12:00	<u>Keynote Speech 8</u> Monitoring Structure Health of Different Types of Bridges with Advanced Multi-temporal InSAR Imagery <i>by Prof. Mingsheng Liao, Wuhan University</i>
12:00-14:00	Lunch (Restaurant: Staff Canteen of New Asia College, The Chinese University of Hong Kong)
Oral Session (Chair: Dr. Peifeng Ma)	
14:00-14:20	Fast and Robust DS-InSAR Analysis of Reclamation Subsidence in Coastal Areas of China <i>by Liming Jiang, Institute of Geodesy and Geophysics, Chinese Academy of Sciences</i>
14:20-14:40	Ground Deformation Monitoring on Changing Landscapes by Temporarily Coherent Point InSAR <i>by Lei Zhang, The Hong Kong Polytechnic University</i>

14:40-15:00	InSAR Deformation Monitoring Technique Based on COSMO-SkyMed Data: Application to Security Assessment on Bridges <i>by Mao Zhu, Beijing Vastitude Technology Co. Ltd</i>
15:00-15:20	Three-pass D-InSAR Processing using TerraSAR-X / TanDEM-X Monostatic Pursuit Data – A Case Study in Shanghai <i>by Ziyun Wang, Wuhan University</i>
15:20-15:40	The Role of Thermal Expansion in The Monitoring of Urban Infrastructure <i>by Peifeng Ma, The Chinese University of Hong Kong</i>
15:40-16:00	Tea Break
16:00-17:30	Panel Discussion (Chair: Prof. Ramon Hanssen, Prof. Fabrizio Lombardini, Dr. Mario Costantini, Prof. Mingsheng Liao)
17:30-17:45	Closing Remarks (Chair: Prof. Hui Lin)