

# Program of "Mapping without the Sun"

## —Techniques and Applications of Optical and SAR Imagery Fusion

**25-27 September 2007, Chengdu, China**

**Tuesday 25 September**

<b>09:00-10:30</b>	<b>Opening Plenary Session and Opening Keynote</b>	
	Location:	主会议室 (Conference hall)
	Chair:	Prof. Zhang Jixian
9:00-9:10	Welcome Speech:	Prof. Zhang Jixian
9:10-9:20	Welcome Speech:	Representative of State Bureau of Surveying and Mapping, China
9:20-9:30	Welcome Speech:	Prof. Dr. J.L.van Genderen
9:30-9:40	Welcome Speech:	Representative of Sichuan Bureau of Surveying and Mapping, China
9:40-10:25	Keynote Speech: Jon Atli Benediktsson, Editor, IEEE Trans. on Geoscience and Remote Sensing.	Decision Fusion of Multitemporal SAR and Multispectral Imagery for Improved Land Cover Classification
10:25-11:00	Coffee/Tea break and Group Photo	
11:00-17:00	Registration	

<b>11:00-12:30</b>	<b>Plenary session 1</b>	
	Location:	主会议室(Conference hall)
	Chair:	Prof. Dr. J.L.van Genderen
11:00-11:30	Li Deren, Wuhan University	TBD
11:30-12:00	Jean Serra, Laboratoire A2SI, ESIEE, France	Prediction and Simulations of Malaysian Forest Fires by Means of Random Spread
12:00-12:30	Zhong Lu, EROS Center, USGS, USA	Monitoring and Characterizing Natural Hazards with Satellite InSAR Imagery

12:30-14:00 Lunch

<b>14:00-16:30</b>	<b>TS 1: Fusion of optical and SAR imagery</b>	
	Location:	主会议厅(Conference hall)
	Chair:	Prof. Shan Jie
14:00-14:30	Jiang Liming,	Synergistic Use of Optical and InSAR Data for Urban

	Chinese University of Hong Kong	Impervious Surface Mapping A Case Study in Hong Kong
14:30-15:00	Xie Feng, Tongji university	The Optimizing method of Fusing SAR with Optical Images for Information Extraction
15:40-15:30	Timo Balz, Universität Stuttgart, Germany	Real Time SAR Simulation for Change Detection Applications based on Data Fusion
15:30-16:00	Shao Yongshe, Tongji University	A Kind of Methods for SAR and Optical Images Fusion Based on the lifting wavelet
16:00-16:30	Chen Quan State Key Laboratory of Remote Sensing Science	Soil Moisture Retrieval Combining Optical and Radar Data During Smex02

<b>14:00-16:30</b>	<b>TS 2: SAR</b>	
	Location:	四季厅 (Four-season hall)
	Chair:	Dr. Lu Zhong
14:00-14:30	Li Zhen, CAS	The Detection of Subsidence at Permanent Frozen Area in Qinghai-Tibetan Plateau
14:30-15:00	Chen Yanling The Hong Kong Polytechnic University	Seven Ears of Mining Subsidence Detected by D-Insar Technique in Fushun City, China
15:40-15:30	You Hongjian CAS	Orthorectifying Spaceborne SAR by DEM based on Fine Registration
15:30-16:00	Zeng Yu CASM	Multi-Scale SAR Land Useland Cover Classification based on Co-Occurrence Probabilities
16:00-16:30	Yan Mingxing, The Center Of Geological information, Sichuan	Application of DInSAR and GIS for Underground Mine Subsidence Monitoring

18:00-20:00 Welcome Dinner hosted by CASM

### Wednesday 26 September

<b>09:00-10:30</b>	<b>Plenary Session 2</b>	
	Location:	主会议厅(Conference hall)
	Chair:	Prof. Wang Yanmin
09:00-09:30	Shan Jie Purdue University, USA	TBD
09:30-10:00	Ralf Duering Infoterra GmbH	TerraSAR-X and TanDEM-X Revolution in Spaceborne Radar

	Corporation, France	
10:00-10:30	Marcello Maranesi e-GEOS, Italy	COSMO-SkyMed in action, products and applications

10:30-10:45 Coffee/Tea break

<b>10:45-11:45</b>	<b>TS 3: Image Classification and Information Extraction</b>	
	Location:	主会议厅(Conference hall)
	Chair:	Prof. Yan Qin
10:45-11:05	P. Caccetta CSIRO, Australia	A Joint Spatial-Temporal Classification and Feature Boundary Updating Model
11:05-11:25	Fang Yuanming Kunming University of Science and Technology	The Application Research in Assistant Classification of Remote Sensing Image by Texture Features Combined with Spectra Features
11:25-11:45	Wang Juanle CAS	Extensible Land Use and Land Cover Classification Model Design based on Remotely Sensed Data

<b>10:45-11:45</b>	<b>TS4: Change Detection</b>	
	Location:	四季厅(Four-season hall)
	Chair:	Prof. Tang Xinming
10:45-11:05	Song Weidong Liaoning Technical University	The Study of Land Use Change Detection based on Sole Period RS Image
11:05-11:25	Shu Ning Wuhan University	A Methodology of LUCC Change Detection based on Land Use Segment
11:25-11:45	Yu Shiyong The research institute of petroleum exploration & development, CNPC	Application of Multi-Temporal TM (ETM+) Image in Monitoring Mining Activities and Related Environment Changes: A Case Study at Daye, Hubei, China

12:30-14:00 Lunch

**15:00-17:00: Visiting LONGQUANYI production base of SICHUAN Bureau of Survey and Mapping, China**

**Thursday 27 September**

<b>09:00-10:00</b>	<b>Plenary Session 3</b>	
	Location:	主会议室(Conference hall)
	Chair:	Prof. Zhou Qiming
09:00-09:30	Chen Xiaoyong,	TBD

	AIT, Thailand	
09:30-10:00	Ralph Humberg Definiens Corporation, Germany	Latest image analysis technology of eCognition applied on large area mapping

10:00-10:15 Coffee/Tea break

<b>10:15-11:30</b>	<b>TS 5: Pansharpening</b>	
	Location:	主会议室(Conference hall)
	Chair:	Prof. Zhang Yonghong
10:15-10:40	Li Pingxiang Wuhan University	A Super Resolution Reconstruction Algorithm to Multi-temporal Remote Sensing Images
10:40-11:05	Zhang Guokun Jilin Normal University	A Fusion Algorithm of High Spatial and Spectral Resolution Images based on ICA
11:05-11:30	Lu Dehao Huazhong University Science and Technology	A Multi-wavelength Images Fusion Method for Detection of foreign materials in cotton

<b>10:15-11:30</b>	<b>TS 6: Registration and Rectification</b>	
	Location:	四季厅(Four-season hall)
	Chair:	Prof. Chen Xiaoyong
10:15-10:40	Xiong Zhen University of New Brunswick, Canada	Study on Tie Point Selection for Co-Registration of Different Resolution Imagery
10:40-11:05	Lin Yi Tongji University	An Optimization High-Precision Registration Method of Multi-source Remote Sensing Images
11:05-11:30	Liu Jiaying Wuhan University	Epipolar Resampling of Different Types of Satellite Imagery

**11: 30-12:00 Closing Plenary Session 主会议室(Conference hall)**

<b>Tuesday 25 September 14:00-16:30</b>	<b>Poster Session 1</b>	
Shen Jinli	The Road Extraction in The Area Covered with High Vegetation Using The Fusion Image of SAR and TM	
Liang Shouzhen	Discrete Wavelet-Based Fusion of TM Multi-Spectral Image and SAR Image Data	
Xing Shuai	Fusing SAR and Optical Images Based on Complex Wavelet Transform	
Dong Wenqing	A Comprehensive Quality Evaluation Method of Information Fusion from High-Resolution Airborne SAR and SPOT5 Images	

Jia Yonghong	A Novel Fusion Method of SAR and Optical Images for Urban Object Extraction
Sun Muhan	A Target Detection Method based on SAR and Optical Image Data Fusion
Wang Muhua	Fusion of SAR and Optical Images to Detect Object-Specific Changes
Zhang Jichao	Research on Surface Subsidence Monitoring with InSAR/GPS Data Fusion in Mining Area
Pang Xinhua	A Simplified Fusion Method based on Synthetic Variable Ratio
Wu Xueming	A Novel Image Fusion Method based on 2DPCA in Remote Sensing
Yue Xijuan	A Method to Determine Spatial Resolution of Remote Sensing Fused Image Quantitatively
Zhu Lijiang	A New Pan-Sharpening Algorithm and Its Application in Geographic Features Information Extraction
Jia Yonghong	Comparison of Morphological Pyramid and Laplacian Pyramid Techniques for Fusing Different Focusing Images
Shao Huaiyong	Research on The Process of Land Use/ Cover Change During Lately 30 Years in Three Gorges Reservoir Area based on Remote Sensing
Zhang Kaixuan	Analysis of The Land Use of Shenyang Mining District and Its Driving Force
Dai Jiguang	Land Cover Change and Climatic Vicissitude Research in Headstream Region of Yellow River in The Nineties of The Twentieth Century
Sun Xiaoxia	Land Use Changes in Three Gorges Reservoir Area in Recent 30 Years
Mua Chao	Remote-Sensing Image Compression based on Fractal Theory
Zhai Liang	Methods and Application of Quality Assessment for Remote Sensing Image Compression
Cheng Chunquan	Matrix Decomposition and Matrix Solvers in Photogrammetry
Li Xianbin	On-Orbit MTF Estimation Methods for Satellite Sensors
Gai Liya	Determination of Chlorophyll Concentration in Three Gorges Dam Using CHRIS/PROBA Image Data
Jian Ji	Research on Land Sandy Desertification with Remote Sensing

<b>Wednesday 26 September 09:00-12:00</b>	<b>Poster Session 2</b>
Zhao Quanhua	Land Cover Classification by Improved Fuzzy C-Mean Classifier
Zhu Hongchun	Research on Gridding Processing Strategies of Remote Sensing Image Segmentation by Region Growth
Lv Shuqiang	Texture Analysis in Information Extract in The High Resolution RS Images
Wu Wenbo	The Study of Remote Sensing Image Information Extraction Techniques based on Knowledge
Zhang Hong	Texture Classification Research based on Lifting-Based Dwt 9/7 Wavelet
Xiong Zhen	Automated Vehicle Information Extraction from one Pass of Quickbird Imagery
Wu Wenbo	Classification of Land Types in Mineral Areas based on Cart
Gu Haiyan	Object-Oriented Classification of High-Resolution Remote Sensing Imagery

	based on MRF and SVM
Zhao Xian	Remote Sensing Image Segmentation based Self-Organizing Map at Multi-Scale
Zhou Jianmin	A New Method of Simulation of Interferogram Image for Repeat-Pass SAR System
Fan Hongdong	Comparison and Improvement of Position Methods from Airborne Stereo SAR Images
Luo Xiaoman	Study on Topographic Map Updating with High Resolution Airborne SAR Images
Cao Yinxuan	An Experiment of High Resolution SAR Image in Dynamic Monitoring The Change of Construction Land
He M.	Detection and Analysis of Earthquake-Induced Urban Disaster based on InSAR Coherence
Zhu Xinxin	Site Selection for Satellite Geometric Test Range in China
Wang Chongchang	Analysis of Images Geometric Rectification for Quickbird
Gong Jianming	Refinement and Evaluation of Beijing-1 Orthorectification based on RFM
Wang Weixi	The Study of Space Intersection Model based on Different-Source High Resolution RS Imagery
Luo Dean	Investigating Several Point Cloud Registration Motheds
Li Baipeng	The Accuracy Assessment of Orthorectified ASTER Image
Liu Bin	A Method on High-Precision Rectification and Registration of Multi-Source Remote Sensing Imagery
Yang ping	Research on Dynamic Symbol Base
Liu Ping	Research on Statistics and Spatial Analysis of Drainage Basin'S Important Geographical Elements
Li Lanyong	The Research and Establishment of Image Database System based on Oracle