

Program of the ISPRS TCI Symposium

| Date | | Content | | | |
|--------|--|--|--|--|---|
| May 12 | | Arrival and Check-in | | | |
| May 13 | | Tutorial | | | Contest on the Intelligent Interpretation for Multi-modal Remote Sensing Application <i>Location: Central South University</i> |
| | | SAR Satellites and Applications <i>Room:Changsha Hall</i> | Point Cloud Processing with AI: Theory, Methods and Applications <i>Room:Hefei Hall</i> | Navigation Technologies for Future Autonomous Vehicles <i>Room:Chongqing Hall</i> | |
| May 14 | The Opening Ceremony and Keynote Speech <i>Ballroom, 1st Floor</i> | | | | |
| | 9:00-10:00 | Welcome Speech Awards for Contest on the Intelligent Interpretation for Multi-modal Remote Sensing Application Congress 2026 Introduction ISPRS TIF Announcement Exhibition Opening Group Photo | | | |
| | 10:00-10:30 | Coffee Break Exhibition(Exhibition Area) | | | |
| | 10:30-11:05 | Keynote Speech by Prof. Chen Jun (China) <i>Title:China's national 3D Mapping Program - 3dRGLm and its applications</i> | | | |
| | 11:05-11:40 | Keynote Speech by Prof. Christian Heipke(Germany) <i>Title:Deep learning remote sensing</i> | | | |
| | 11:40-12:15 | Keynot Speech by Prof. Li Deren (China) <i>Title:From the Luojia Series Satellites to the Oriental Smart Eye Constellation</i> | | | |
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| Date | | Content | | | |
|--------|--------------------|--|--|---|--|
| | 12:15-14:00 | Lunch break | | | |
| | 14:00-14:35 | Keynote Speech by Prof. Charles Toth (USA) <i>Title:Trends in Geospatial Data Georeferencing</i> | | | |
| | 14:35-15:10 | Keynote Speech by Prof. Gong Jianya (China) <i>Title:Advanced and Challenges in Intelligent Interpretation of Remote Sensing</i> | | | |
| | 15:10-15:45 | Keynote Speech by Prof. Naser El-Sheimy (Canada) <i>Title:Integrated Navigation Systems from Mobile Mapping to Autonomous Systems: State of the Art and Future Trends</i> | | | |
| | 15:45-16:15 | Coffee Break | | | |
| | 16:15-16:50 | Keynote Speech by Prof. Guo Renzhong (China) <i>Title:Remote Sensing Technology to Empower Smart Cities</i> | | | |
| | 16:50-17:25 | Keynote Speech by Prof. Wolfgang Kainz (Austria) <i>Title:Sensor Systems, Spatial Data Science and all that Jazz</i> | | | |
| | 17:25-18:00 | Keynote Speech by Prof. Jonathan Li (Canada) <i>Title:Mobile LiDAR for 3D Mapping of Difficult Environments: Challenges and Solutions</i> | | | |
| | 19:00 | Welcome Dinner <i>Ballroom, 1st Floor</i> | | | |
| May 15 | Technical sessions | | | | |
| | 9:00-12:00 | Satellite Missions and Constellations for Remote Sensing <i>Room: Changsha Hall</i> | Mobile Mapping Technology <i>Room: Hefei Hall</i> | Artificial Intelligence Technology Related to Sensor Systems <i>Room: Chongqing Hall</i> | Robotics for Mapping and Machine Intelligence <i>Room: Beijing Hall</i> |
| | 10:15-10:45 | Coffee Break | | | |

| Date | | Content | | | |
|--------|--------------------|---|--|--|--|
| | | POSTER(Room:Fuzhou Hall) | | | |
| | 14:00-18:00 | Orientation, Calibration and Validation of Sensors Room: Changsha Hall | Digital Construction: Reality Capture, Automated Inspection and Integration to BIM Room: Hefei Hall | Multi-sensor Remote Sensing Applications Room: Chongqing Hall | Multi-sensor Modelling and Cross-modality Fusion Room: Beijing Hall |
| | 15:30-16:00 | Coffee Break POSTER(Room:Fuzhou Hall) | | | |
| | 16:00-18:00 | ISPRS TC I Business meeting Room:Kunming Hall | | | |
| May 16 | Technical sessions | | | | |
| | 9:00-12:00 | Multispectral, Hyperspectral and Thermal Sensors Room: Changsha Hall | LiDAR, Laser Altimetry and Sensor Integration Room: Hefei Hall | Autonomous Sensing Systems and Data Quality Room: Chongqing Hall | Microwave and InSAR Technology for Earth observation Room: Beijing Hall |
| | 10:15-10:45 | Coffee Break POSTER(Room:Fuzhou Hall) | | | |
| | 14:00-18:00 | Multispectral, Hyperspectral and Thermal Sensors Room: Changsha Hall | Point Cloud Generation and Processing Room: Hefei Hall | Provincial and Commercial Satellite Remote Sensing Application Room: Chongqing Hall | Microwave and InSAR Technology for Earth Observation Room: Beijing Hall |
| | 17:30-18:30 | The Closing Ceremony | | | |

| Date | | Content | |
|--------|--|---|---|
| | | Excellent Paper Award <i>Room: Changsha Hall</i> | |
| May 17 | | Technical Visits | |
| | | Central South University | Hunan Province Satellite Application and Technology Center of Natural Resources |
| May 18 | | Departure | |

May 15, 9:00-11: 45

Room: Changsha Hall

Title: Satellite Missions and Constellations for Remote Sensing

Chaired by Prof. Li Rongxing, Prof. Hu Xiangyun

Assistant: Prof. Wang Yanjun

9:00-9:30 Invited Talk, Title:Development and Future of Differential Interferometric SAR in China

By Prof. Chen Junli

9:30-10:00 Invited Talk, Title: Siwei SuperView Neo-New Generation Satellite System with Optical & SAR Sensor Integration

By Prof. Cheng Liangxiao

10:00-10:15 #182,Title: Polar-Vision1: A Novel Collinearity Equation of Perspective Projection in Polar Coordinate System

By Zuo Zhengkang, Zhang Bin

Organization: Working Group of Polar-vision, Taiyuan University of Technology, Taiyuan, China; School of Earth and Space Science, Peking University, Beijing, China; DASPATIAL Co., Ltd, Wuhan, China

10:15-10:45 Coffee Break

10:45-11:00 #244, Title: Development of Multi-Strip Image Mosaicking for KOMPSAT-3A Images

By Jong-Hwan Son, Sumin Park, Hyeon-Ju Ban, Taejung Kim

Organization: Image Engineering Research Center, 3DLabs Co., Ltd., Incheon, Republic of Korea

11:00-11:15 #337, Title: A novel LiDAR-GNSS-INS Two-Phase Tightly Coupled integration scheme for precise navigation

By Ai Mengchi, Ilyar Asl Sabbaghian Hokmabad, Mohamed Elhabiby, Naser El-Sheimy

Organization: Dept. of Geomatics Engineering, University of Calgary, Calgary, Canada

11:15-11:30 #271, Title: On-Orbit Geometric Calibration of the HJ-2 A/B Satellites' Infrared Sensors

By Zhang Hao, Qin Wei, Wang Kaixin, Wang Qianying, Tao Pengjie

Organization: School of Remote Sensing and Information Engineering, Wuhan University, Wuhan, China

11:30-11:45 #332, Title: Fast and Accurate Zero-defect Manufacturing Using Collaborative Real-time Photogrammetry

By Francesco Messina, Andrea Maria Lingua, Alessio Martino, Francesca Matrone, Paolo Maschio

Organization: Department of Electronics and Telecommunications (DET), PoliTO Interdepartmental Centre for Service Robotics (PIC4SeR), Politecnico di Torino, Corso Ferrucci 112, Italy

May 15 , 9:00-12:00

Room: Hefei Hall

Title: Mobile Mapping Technology

Chaired by Prof. Andrea Masiero, Prof. Wen Chenglu

Assistant: Prof. Mao Wenfei

9:00-9:30 Invited Talk, Title: Photogrammetry and remote sensing technologies applied in China's recent lunar and Mars exploration missions

By Prof. Di Kaichang

9:30-9:45 #316, Title: Semi-automated Approach Towards Efficient HD Maps Generation and Verification with Lanelet2 Formats

By Chang Yifeng, Huang Yenen, Meng-Lun Tsai, Hatem Darweesh, Kai-Wei Chiang, Ai Mengchi, Naser El-Sheimy

Organization: Department of Geomatics, National Cheng Kung University, Tainan, Taiwan (R.O.C.)

9:45-10:00 #113, Title: Accurate Segmentation Method for Roadside Lampposts Based on Vehicle-mounted LIDAR Point Clouds

By Li Dengfeng, Li Yaoyu, Fan Yuhang, Tang Shengjun

Organization: China communications information technology group co., ltd., Beijing, China

10:00-10:15 #125, Title: Simultaneous Calibration of Multiple Cameras and Generation of Omnidirectional Images

By José M. Pacheco, Antonio M. G. Tommaselli

Organization: Department of Cartography, School of Sciences and Technology, São Paulo State University (UNESP), Presidente Prudente, São Paulo, Brazil

10:15-10:45 Coffee Break

10:45-11:00 #203, Title: Towards Sustainable Urban Energy: A Robust Deep Learning Framework for Solar Potential Estimation

By Lin Weiyan, Zhu Jiasong, Hua Yuansheng, Li Qingyu, Mou Lichao, Zhu Xiao Xiang

Organization: School of Architecture and Urban Planning, Shenzhen University, Shenzhen, China

11:00-11:15 #251, Title: PCINet: a Prototype- and Concept-based Interpretable Network for Mutli-scene Recognition

By Hua Yuansheng, Zhu Jiasong, Li Qingquan

Organization: School of Civil and Traffic Engineering, Shenzhen University, Shenzhen, China

11:15-11:30 #296, Title: A Scene Unmixing Deep Learning Network for Local Climate Zone Mapping and Analysis Using Very High Resolution Remote Sensing Imagery

By Tian Xinji, Li Jiayi, Huang Xin

Organization: School of Remote Sensing and Information Engineering, Wuhan University, Wuhan, China

11:30-11:45 #357, Title: Robotics for Heritage Surveying: Preliminary Test on Leica BLK ARC & Spot toward Autonomous 3D Mapping

By Giulia Sammartano, Alessandra Spreafico, Beatrice Tanduo, Filiberto Chiabrando

Organization: Laboratory of Geomatics for Cultural Heritage (LabG4CH), Department of Architecture and Design (DAD), Polytechnic University of Turin, Viale Pier Andrea Mattioli, 39, Torino (TO), Italy

11:45-12:00 #174, Title: Mega-NeRF++: An Improved Scalable NeRFs for High-resolution Photogrammetric Images

By Xu Yiwei, Wang Tengfei, Zhan Zongqian, Wang Xin

Organization: School of Geodesy and Geomatics, Wuhan University, Wuhan, China

May 15 , 9:00-12:00

Room: Chongqing Hall

Title: Artificial Intelligence Technology Related to Sensor Systems

Chaired by Prof. Sun Xian, Prof. Gu Xingfa

Assistant: Prof. Wang Wei

9:00-9:30 Invited Talk, Title: toward open world remote sensing image understand: memory model perspective

By Prof. Li Haifeng

9:30-9:45 #205, Title: A Transformer and Visual Foundation Model-Based Method for Cross-View Remote Sensing Image Retrieval

By Yin Changjiang, Ye Qin, Luo Junqi

Organization: College of Surveying and Geo-Informatics, Tongji University, Shanghai, China

9:45-10:00 #263, Title: A Multi-scale Features-based Cloud Detection Method for Suomi-NPP VIIRS Day and Night Imagery

By Li Jun, Hu Chengjie, Sheng Qinghong, Xu Jiawei, Zhu Chongrui, Zhang Weili

Organization: The College of Astronautics, Nanjing University of Aeronautics and Astronautics, Nanjing, China

10:00-10:15 #298, Title: Real-time and Intelligent Moving Targets Tracking based on UAV Remote Sensing Video Camera and Brain-like Computing Chips

By Hu Kun, Wu Yuxuan, Huang Mingyang, Wang Chen, Wu Haoheng, Cai Tianyu, Zhang Qingle, Wang Shichao, Li Bo

Organization: Institute of Artificial Intelligence, Beihang University, Beijing, China

10:15-10:45 Coffee Break

10:45-11:00 #331, Title: Monitoring the Spread of a Pathogenic Insect on Vineyards using UAS

By Valeria Longhi, Alessio Martino, Andrea Maria Lingua, Paolo Felice Maschio, Elena Belcore

Organization: DIST, Politecnico di Torino, Viale Pier Andrea Mattioli 39, 10125 Torino

11:00-11:15 #351, Title: Extracting Building Outlines Based on Convolutional

Neural Networks using the Property of Linear Connectivity

By Anton Emelyanov, Vladimir Knyaz, Vladimir Kniaz

Organization: Moscow Institute of Physics and Technology (MIPT), Russia

11:15-11:30 #272, Title: A Smart Application Frame of Remote Sensing in Non-grain Production Data Governance

By Zhang Longqi, He Wenwen, Guo Yunkai, Teng Xiao

Organization: Department of Surveying and Mapping Engineering, Changsha University of Science and Technology, Changsha, China; Institute of Mapping and Remote Sensing Application, Changsha University of Technology, Changsha, China

11:30-12:00 Title: Contest on the intelligent interpretation for multi-modal remote sensing application. Oral Technical Reports

May 15 , 9:00-12:00

Room: Beijing Hall

Title: Robotics for Mapping and Machine Intelligence

Chaired by Prof. Liao Xiaohan , Prof. Zhu Jianjun

Assistant: Prof. Zhou Yushan

9:00-9:30 Invited Talk, Title: Urban Informatics

By Prof. Shi Wenzhong

9:30-10:00 Invited Talk, Title: Towards Intelligent Photogrammetry: A New Era

By Prof. Ji Shunping

10:00-10:15 #134, Title: M-GCLO: Multiple Ground Constrained LiDAR Odometry

By Yang Yandi, Naser El-Sheimy

Organization: Department of Geomatics Engineering, University of Calgary, Calgary, Alberta, Canada

10:15-10:45 Coffee Break

10:45-11:00 #232, Title: Mapping Urban Green Space of the 36 Major Cities in China using ZY-3 Satellite Images Based on a Feature Robust to Low-brightness Pixels

By Lu Chen, Du Xiaoyu, Wang Guanghui, Zhang Wei, Zheng Lijuan

Organization: Land Satellite Remote Sensing Application Center, Ministry of Natural Resource, Beijing, China

11:00-11:15 #130, Title: Dense Collaborative Mapping with Deep Visual SLAM Method

By Pan Peiwei, Zhang Wei, Norbert Haala

Organization: Institute for Photogrammetry, University of Stuttgart, Germany

11:15-11:30 #167, Title: Machine Learning for the prediction of mass movement susceptibility

By Mahdis Amiri, Saied Pirasteh

Organization: Institute of Artificial Intelligence and School of Mechanical and Electrical Engineering, Shaoxing University, Shaoxing, China

11:30-11:45 #341, Title: AI-Driven Dim-Light Adaptive Camera (DimCam) for Lunar Robots

By Duan Ran, Wu Bo, Chen Long, Zhou Hao, Fan Qichen

Organization: Department of Land Surveying and Geo-informatics | Research Centre for Deep Space Explorations, The Hong Kong Polytechnic University, Hung Hom, Hong Kong

11:45-12:00 #260, Title: LOLA DEM Assisted Photogrammetric Processing of Lunar Reconnaissance Orbiter NAC Images for the Lunar South Pole

By Liu Pengying, Geng Xun, Wang Yuying, Zhang Jiujiang

Organization: College of Geography and Environmental Science, Henan University, Kaifeng, China; State Key Laboratory of Geo-Information Engineering, Xi'an, China

May 15 , 14:00-16:45

Room: Changsha Hall

Title: Orientation, Calibration and Validation of Sensors

Chaired by Prof. Zhang Guo, Prof.Zhang Bing

Assistant: Prof. Wang Yanjun

14:00-14:30 Invited Talk, Title: 3D reconstruction of the interest area of the integration of data resources from satellites and ground and Internet

By Prof. Fan Dazhao

14:30-15:00 Invited Talk, Title: Triplet Epipolar Geometry and Triplet Epipolar Images Generation

By Prof. Pan Hongbo

15:00-15:15 #135, Title: Efficient Feature Matching for Large-scale Images based on Cascade Hash and Local Geometric Constraint

By You Kan, Jiang San, Li Yaxin, Jiang Wanshou, Huang Xiangxiang

Organization: School of Computer Science, China University of Geosciences, Wuhan, China; Department of Land Surveying and Geo-Informatics, The Hong Kong Polytechnic University, Hong Kong, China

15:15-15:30 #160, Title: Adaptive Parameter Local Consistency Outlier Removal Algorithm for Area-Based Matching

By Huang Tao, Pan Hongbo, Zhou Nanxi

Organization: School of Geoscience and Info-Physics, Central South University, Changsha, China

15:30-16:00 Coffee Break

16:00-16:15 #347, Title: On-the-Fly SfM: What you capture is What you get

By Zhan Zongqian, Xia Rui, Yu Yifei, Xu Yibo, Wang Xin

Organization: School of Geodesy and Geomatics, Wuhan University, Wuhan, China

16:15-16:30 #228, Title: Comprehensive Vibration Analysis and Modeling for ZY-3 Satellite's Lifecycle

By Mo Fan, Xie Junfeng, Wang Shuyi, Zhao Liping, Li Xiang, Xia Haoran, Shang Yongjie

Organization: Land Satellite Remote Sensing Application Center, Ministry of Natural Resources, Beijing, China; School of Earth Sciences and Engineering, Hohai University, Nanjing, China

16:30-16:45 #176, Title: South-to-South Cooperation in Multi-Source Satellite

Data for Improving Food Security

By Timo Balz, Gao Ruonan, Walter Musakwa, James Magidi, Shao Zhenfeng

Organization: LIESMARS, Wuhan University, China

May 15 , 14:00-16:45

Room: Hefei Hall

Title: Digital Construction: Reality Capture, Automated Inspection and Integration to BIM

Chaired by Prof. *Bai Yuqi*, Prof. Zhang Xinchang

Assistant: Prof. Mao Wenfei

14:00-14:30 Invited Talk, Title: Exploration and Application of Key Technologies for Virtual Urban Environments Construction

By Prof. Wang Weixi

14:30-15:00 Invited Talk, Title:Core technology and engineering application of millimeter mapping Lidar

By Prof. Mao Qingzhou

15:00-15:15 #114, Title: Terrestrial Laser Scanning (TLS) Survey and Building Information Modeling (Bim) of the Edmund Pettus Bridge: A Case Study

By Liu Junshan, Li Botao

Organization: School of Architecture, Georgia Institute of Technology, Atlanta, GA, USA; McWhorter School of Building Science, Auburn University, Auburn, AL, USA

15:15-15:30 #129, Title: Assessing and Improving Automated Viewpoint Planning for Static Laser Scanning Using Optimization Methods

By F. Noichl, M. Stuecke, C. Thielen, A. Borrmann

Organization: Chair of Computational Modeling and Simulation, School of Engineering and Design, Technical University of Munich, Munich, Germany

15:30-16:00 Coffee Break

16:00-16:15 #235 Title: Integrating Data from Terrestrial Laser Scanning and Unmanned Aerial Vehicle with LiDAR for BIM Developing

By Wioleta Błaszczak-Bąk, Andrea Masiero, Paweł Bąk, Kamil Kuderko

Organization: Faculty of Geoengineering, University of Warmia and Mazury in Olsztyn, Olsztyn, Poland

16:15-16:30 #275, Title: 360-Degree Tri-Modal Scanning: Engineering a Modular Multi-Sensor Platform for Semantic Enrichment of BIM Models

By Fiona Claire Collins, Florian Noichl, Martin Slepicka, Gerda Cones, André Borrmann

Organization: Chair of Computational Modeling and Simulation, School of

Engineering and Design Technical University of Munich, Munich, Germany

16:30-16:45 #305, Title: Garbage Monitoring and Management Using Deep Learning

By Charanya Manivannan, Jovina Virgin, Shivaani Suseendran, Dr. K. Vani

Organization: Dept. of Information Science and Technology, College of Engineering, Guindy, Chennai, India

May 15 , 14:00-17:15

Room: Chongqing Hall

Title: Multi-sensor Remote Sensing Applications

Chaired by Prof. Laurent Polidori, Prof. Wang Lizhe

Assistant: Prof. Wang Wei

14:00-14:30 Invited Talk, Title: Typical Applications of Intelligent Mining of Geoscience Big Data

By Prof. Zhang Zhenkai

14:30-14:45 #169, Title: Study on the Application of Water Resource Management Based on Gf-7 Stereo Mapping Satellite

By Liu Ke, Liu Lirong, Luo Zhengyu, Gan Yuhang

Organization: Land Satellite Remote Sensing Application Center, Ministry of Natural Resources of P. R. China, Beijing, China

14:45-15:00 #202, Title: Shoreline Extraction Methods from Sentinel-2 and PlanetScope Images

By Riccardo Angelini, Eduard Angelats, Guido Luzi, Francesca Ribas, Andrea Masiero

Organization: Department of Civil and Environmental Engineering, University of Florence, Florence, Italy

15:00-15:15 #295, Title: Cross Domain Early Crop Mapping with Label Spaces Discrepancies using MultiCropGAN

By Wang Yiqun, Huang Hui, Radu State

Organization: The Services and Data Management Research Group (SEDAN), The Interdisciplinary Centre for Security, Reliability and Trust (SnT), University of Luxembourg, Luxembourg, Luxembourg

15:15-15:30 #312, Title: PRIMSA Hyperspectral Satellite Imagery Application to Local Climate Zones Mapping

By Alberto Vavassori, Daniele Oxoli, Giovanna Venuti, Maria Antonia Brovelli, Ali Badr Eldin, Ali Mohamed, Afshin Moazzam, Mario Siciliani de Cumis, Patrizia Sacco, Deodato Tapete

Organization: Dept. of Civil and Environmental Engineering, Politecnico di Milano, Milano, Italy

15:30-16:00 Coffee Break

16:00-16:15 #349, Title: Multi-sensor Data Analysis for Aerial Image Semantic

Segmentation and Vectorization

By V.A. Knyaz, V.V. Kniaz, S.Yu. Zheltov, K.S. Petrov

Organization: Moscow Institute of Physics and Technology (MIPT); State Research Institute of Aviation Systems (GosNIAS) , Moscow, Russia

16:15-16:30 #353, Title: Influence of 3D Models on Cervical Measurements of Teeth

By Armen Gaboutchian, Vladimir Knyaz, Anatoly Maximov, Sergey Zheltov

Organization: Peoples Friendship University of Russia, Armen Gaboutchian, Moscow, Russia

16:30-16:45 #339, Title: Cascaded Framework for Earthquake Building Damage Detection Combining Spatial and Frequency Domain Feature Integration

By Ming Dongping, Xie Shizhe, dong Dehui, Zhang Jing

Organization: School of Information Engineering, China University of Geosciences Beijing, Beijing, China

16:45-17:00 #211, Title: Exploring the effects of crop growth differences on radar vegetation index response and crop height estimation using dynamic monitoring model

By Wang Bo, Liu Yu, Sheng Qinghong, Li Jun, Wang Shuwei, Qiao Yunfeng, Qiao Yunfeng, He Honglin

Organization: College of Astronautics, Nanjing University of Aeronautics and Astronautics, Nanjing, China

17:00-17:15 #150, Title: The Progress/Status of Ecological Assessment on the Intensive Land Use in Selenge and Darkhan-UUL Province, Mongolia

By Ochirkhuyag Lkhamjav, Uyanga Batbold, Delgertsetseg Renchinmyag, Bilguun Ulziibat, Uuriintsolmon Enkhtaivan, Ariunbold Erdenegerel, Oyundari Borkhuu, Solongo Tsogtbaatar, Khaulanbek Akhmadi

Organization: Division of Land Resources and Land Use, Institute of Geography and Geoecology, MAS; Mongolian Geospatial Association, Mongolia

May 15 , 14:00-17:00

Room: Beijing Hall

Title: Multi-sensor Modelling and Cross-modality Fusion

Chaired by Prof. Wang Cheng, Dr. Tian Jiaojiao, Prof. Andrea Lingua

Assistant: Prof. Zhou Yushan

14:00-14:30 Invited Talk, Title: Agricultural Remote Sensing and Its Application
By Prof. Li Zhenhai

14:30-15:00 Invited Talk, Title: Introduction of shared data and free services of
National Earth Observation Scientific Data Center
By Prof. Chen Zugang

15:00-15:15 #152, Title: Real-Time Deformation Measurement of Long-Span
Bridge using Multi-Inertial Camera System
By Chen Ruizhe, Tu Wei, Li Qingquan, Chen Zhipeng, Zhang Bochen
Organization: Guangdong Key Laboratory of Urban Informatics, Shenzhen
University, Shenzhen, China; Ministry of Natural Resources Key Laboratory for
Geo-Environmental Monitoring of Great Bay Area, Shenzhen University,
Shenzhen, China; Shenzhen Key Laboratory of Spatial Smart Sensing and
Services, Shenzhen, China; School of Architecture and Urban Planning,
Shenzhen University, Shenzhen, China

15:15-15:30 #241, Title: Deep Convolutional Network Based on Attention
Mechanism for Matching Optical and SAR Images
By He Haiqing, Yu Shixun, Zhou Fuyang, Zhang Hai, Chen Longyu
Organization: School of Surveying and Geoinformation Engineering, East
China University of Technology, Nanchang, China; Key Laboratory of Mine
Environmental Monitoring and Improving around Poyang Lake of Ministry of
Natural Resources, East China University of Technology, Nanchang, China

15:30-16:00 Coffee Break

16:00-16:15 #258, Title: Study On Fault Monitoring Technology Of Photovoltaic
Panel Based On Thermal Infrared And Optical Remote Sensing
By Zhang Wei, Wang Guanghui, Yao Guoqing, Lu Chen, Liu Yu
Organization: China University of Geosciences, Beijing, China; Land Satellite
Remote Sensing Application Center, MNR , Beijing, China

16:15-16:30 #281, Title: Estimating Forest Canopy Height Based On Gedi
Lidar Data And Multi-Source Remote Sensing Images

By Lei Yuqi, Wang Yuanjia, Wang Guilong, Song Chengwen, Cao Hui, Xiao Wen

Organization: School of Geography and Information Engineering, China University of Geosciences, Wuhan, China

16:30-16:45 #343, Title: Strategic Planning of Rural Telecommunication Infrastructure: A Multi-Source Data Fusion and Optimization Model

By Ferdaous Chaabane, Safa Réjichi, Housseem Ben Salem, Hassen Elmabrouk, Florence Tupin

Organization: COSIM laboratory, SUP'COM, Carthage University, Tunisia

16:45-17:00 #136, Title: Multi-temporal Monitoring for Road Slope Collapse by Means of Lutan-1 SAR and High Resolution Optical Data

By Zhang Xiang, Tang Xinming, Li Tao, Zhou Xiaoqing, Hu Haifeng, Zhang Xuefei, Lu Jing

Organization: Land Satellite Remote Sensing Application Center, Ministry of Natural Resources of P.R, Beijing, China

May 16 , 9:00-12:00

Room: Changsha Hall

Title: Multispectral, Hyperspectral and Thermal Sensors

Chaired by Prof. Wang Mi、 Prof. Zhang Liangpei

Assistant: Prof. Zhang Longqi

9:00-9:30 Invited Talk, Title: Spaceborne Hyperspectral Full-Chain Modeling and Data Uncertainty Analysis
By Prof. Zhao Huijie

9:30-9:45 #108 Title: Research on Hyperspectral Surface Reflectance Dataset of Typical Ore Concentration Area in Hami Remote Sensing Test Field
By Liang Shuneng, Li Yang, Wei Hongyan, Dong Lina, Zhang Jiaheng, Xiao Chenchao
Organization: Land Satellite Remote Sensing Application Center, Ministry of Natural Resources, Beijing, China

9:45-10:00 #109, Title: The time-series GF-1 WFV data monitoring of sugarcane using a Random Forest Algorithm in South China
By Chen Chen, Lou LinJiang, Cheng Tao, Gao XinYuan, Liu Yu
Organization: Land Satellite Remote Sensing Application Center, MNR, Beijing, China

10:00-10:15 #184, Title: Non-Destructive Assessment of Stone Heritage Weathering Types Based on Machine Learning Method Using Hyperspectral Data
By Wang Xin, Cheng Yuan, Zhang Ruoyu, Zhang Yue, Huang Jizhong, Yan Hongbin
Organization: Institute for the Conservation of Cultural Heritage, School of Cultural Heritage and Information Management, Shanghai University, Shanghai, China; School of Mechanics and Engineering Science, Shanghai University, Shanghai, China

10:15-10:45 Coffee Break

10:45-11:00 #224, Title: Comparing Deep Learning and MCWST Approaches for Individual Tree Crown Segmentation
By Fan Wen, Tian Jiaojiao, Jonas Troles, Martin Döllner, Mengistie Kindu, Thomas Knoke
Organization: Institute of Forest Management, Department of Life Science

Systems, TUM School of LifeSciences Weihenstephan, Technical University of Munich, Hans- Carl- von- Carlowitz- Platz 2, 85354 Freising, Germany

11:00-11:15 #245, Title: Seasonal changes of chlorophyll-a concentration in Jiujiang city based on remote sensing

By Jiang Wei, Kong Fanping, Ding Xiaohui, Elhadi Adam, Cui Shiai, Luo Gan
Organization: China Institute of Water Resources and Hydropower Research, Beijing, China

11:15-11:30 #274, Title: Exploring the seasonal comparison of land surface temperature dominant factors in the Tibetan Plateau

By Sheng Qinghong, Zhang Yuejie, Li Kerui, Ling Xiao, Li Jun
Organization: College of Astronautics, Nanjing University of Aeronautics and Astronautics, Nanjing

May 16 , 9:00-12:15

Room: Hefei Hall

Title: LiDAR, Laser Altimetry and Sensor Integration

Chaired by Prof. Jonathan Li, Prof. Chen Yiping

Assistant: Prof. Xing Xuemin

9:00-9:30 Invited Talk, Title: Multi-Sensor Collaboration for Improved Navigation in Complex Environments

By Prof. Zheng Nanshan

9:30-10:00 Invited Talk, Title: Corn phenotyping by harmonizing the terrestrial LiDAR points and spectral remote sensing data

By Prof. Su Wei

10:00-10:15 #110, Title: Forest Plot Decay Level Classification From Als-Derived L-Moments

By Abubakar Sani-Mohammed, Yao Wei, Reda Fekry, Tsz-Chung Wong, Marco Heurich

Organization: Department of Land Surveying and Geo-Informatics, The Hong Kong Polytechnic University, Hung Hom, Kowloon, Hong Kong

10:15-10:45 Coffee Break

10:45-11:00 #149, Title: Research on the Effectiveness of Lidar Survey for Large Mapping

By Sergey Nekhin, Alexey Rubenok, Alexander Kovrov

Organization: Public Law Company "Roskadastr", Moscow, Russia

11:00-11:15 #204, Title: Qinghai-Tibet Plateau Glacier-DEM product derived from the Chinese stereo mapping satellites

By Li Guoyuan, Guo Jinqun, Shang Jing, Zhu Siao, Chen Jie

Organization: Land Satellite Remote Sensing Application Center, Ministry of Natural Resources of P.R. China, Beijing, China; School of Surveying and Mapping and Geographic Sciences, Liaoning University of Engineering and Technology, Fuxin, China; College of Geo-science and Surveying Engineering, China University of Mining and Technology-Beijing, Beijing, China

11:15-11:30 #280, Title: Large-scale DSM registration via motion averaging

By Xu Ningli, Qin Rongjun

Organization: Geospatial Data Analytics Lab, The Ohio State University, Columbus, USA; Department of Electrical and Computer Engineering, The

Ohio State University, Columbus, USA

11:30-11:45 #285, Title: A comparative study of mass balance in the Lambert Glacier and Amery Ice Shelf along the Chinese inland traverse during 2019–2023 using altimetry, gravity, and in-situ observations

By Li Hongwei, He Youquan, Gu Yuanyuan, Qiao Gang

Organization : Center for Spatial Information Science and Sustainable Development Applications, Tongji University, Shanghai China; College of Surveying and Geo-informatics, Tongji University, Shanghai, China

11:45-12:00 #300, Title: Data Quality Analysis After Hyperspectral Lidar Sequentially Mapping Trees

By Dong Shao, Lin Yi

Organization: Institute of Remote Sensing and Geographic Information System, School of Earth and Space Sciences, Peking University, Beijing, China

12:00-12:15 #359, Title: Spectroscopy Detection and Imaging System Based on Line Array Single Photon Detectors

By Xue Ruikai, Kong Wei, Peng Ziqiang, Liu Qiang, Liu Yuanting, Jiang Bin, Huang Genghua, Shu Rong

Organization : Key Laboratory of Space Active Opto-Electronics Technology, Shanghai Institute of Technical Physics, Chinese Academy of Sciences, Shanghai, China; Shanghai Branch, Hefei National Laboratory, Shanghai, China; Shanghai Research Center for Quantum Sciences, Shanghai, China

May 16 , 9:00-12:15

Room: Chongqing Hall

Title: Autonomous Sensing Systems and Data Quality

Chaired by Prof. Mariana Campos, Prof. Guo Yunkai

Assistant: Prof. Li Shaoning

9:00-9:25 Invited Talk, Title: Benchmarking of Close-range Sensing Technologies for Forest investigations

By Prof. Liang Xinlian

9:25-9:50 Invited Talk, Title: Development of intelligent technology related to surveying and mapping satellite platform

By Prof. Chen Chao

9:50-10:15 Invited Talk, Title: GEOSatDB: Global Civil Earth Observation Satellite Database

By Prof. Bai Yuqi

10:15-10:45 Coffee Break

10:45-11:00 #330, Title: Affordable Sensors for Speditive and Accurate Documentation of Built Heritage: First Tests and Preliminary Results

By Alessio Martino, Andrea Maria Lingua, Paolo Maschio

Organization : Department of Environment, Land and Infrastructure Engineering (DIATI), Politecnico di Torino, Corso Duca degli Abruzzi 24, Italy

11:00-11:15 #265 Title: Accurate Pointing Determination of Space Targets under the Stars Background

By Guan Zhichao, Hou Chongyuan, Zhong Xing, Jiang Yonghua, Zhang Guo, Gong Jing

Organization: State Key Laboratory of Information Engineering in Surveying, Mapping and Remote Sensing (LIESMARS), Wuhan University, Wuhan, China

11:15-11:30 #345, Title: Orthorectification of Bridges from High Resolution Satellite Images

By Seunghee Kim, Taejung Kim

Organization: Dept. of Geoinformatic engineering, Inha University, 100 Inha-ro, Michuhol-gu, Incheon, Republic of Korea

11:30-11:45 #165, Title: Visual Reinforcement Learning for Dynamic Object Detection

By Wang XiangSheng, Hu XiKun, Zhong Ping

Organization : College of Electrical Science and Technology, National University of Defense Technology, China

11:45-12:00 #306, Title: UAV and Deep Learning: Detection of Selected Riparian Species along the Ganga River

By Ravindra Nath Tripathi, Aishwarya Ramachandran, Karan Agarwal, Vikas Tripathi, Ruchi Badola, Syed Ainul Hussain

Organization : Ganga Aqualife Conservation Monitoring Center, Wildlife Institute of India, Dehradun, India; Dept. of Computer Science and Engineering, Graphic Era deemed to be University, Dehradun, India

12:00-12:15 #166, Title: On the RFI Detection in Differential Interferometric Synthetic Aperture Radar

By Liu Yanyang, Tao Mingliang, Li Jieshuang, Li Tao, Chen Junli

Organization: Shanghai Institute of satellite engineering, Shanghai, China

May 16 , 9:00-12:15

Room: Beijing Hall

Title: Microwave and InSAR Technology for Earth observation

Chaired by Prof. Liao Mingsheng, Prof. Li Chaokui

Assistant: Prof. Li Jia

9:00-9:20 Invited Talk, Title: Wide-area Identification of Landslide Hazards Based on Multi-source Remote Sensing: Application to Transportation Engineering on the Tibetan Plateau

By Prof. Li Zhenhong

9:20-9:40 Invited Talk, Title: Multi-temporal InSAR with Correction for Decorrelation Noise and Atmospheric Delays

By Prof. Hu Jun

9:40-10:00 Invited Talk, Title: Dynamic deformation monitoring of landslides using sequential polarimetric InSAR

By Prof. Dong Jie

10:00-10:15 #123, Title: Calculating of Taftan Volcano Displacement Using PSI Technique and Sentinel 1 Images

By Mahdieh Shirmohammadi, Saied Pirasteh, Shen Jie, Jonathan Li

Organization : Department of Remote sensing and Geographic Information Systems, Faculty Geographical Sciences, Kharazmi university, Tehran, Iran

10:15-10:45 Coffee Break

10:45-11:00 #126, Title: Utilizing InSAR for Surface Stability Monitoring in Mining Sites: A Case Study of Sukari Gold Mine in Egypt

By Bahaa Mohamadi

Organization : Institute of Artificial Intelligence, School of Mechanical and Electrical Engineering, Shaoxing University, Shaoxing, China

11:00-11:15 #157, Title: Revealing Urban Deformation Patterns through InSAR Time Series Analysis with TCN and Transfer Learning

By Yang Mengshi, Li Saiwei, Yu Hang, Wu Hao, Li Menghua

Organization: Yunnan University, China; Yunnan International Joint Laboratory of China-Laos-Bangladesh-Myanmar Natural Resources Remote Sensing Monitoring, China

11:15-11:30 #186, Title: Comparison Between Dinsar and Stacking in

Deformation Monitoring Using Lutan-1

By Lu Jing, Tang Xinming, Li Tao, Zhang Xiang, Zhang Xuefei, Li Tan, Qiu Xiaofeng

Organization: Land Satellite Remote Sensing Application Center, MNR, Beijing, China

11:30-11:45 #207, Title: Crop Height Estimation Based on a novel Semi-Empirical Model Considering Double-Bounce Scattering Using RADARSAT-2 PolSAR Data

By Hu Shuaifeng, Xie Qinghua, Peng Xing, Wang Jinfei, Fu Haiqiang, Zhu Jianjun, Liu Xiaotong

Organization: The School of Geography and Information Engineering, China University of Geosciences (Wuhan), Wuhan, China

11:45-12:00 #216, Title: Assessing Looting Holes by Using SAR Simulation

By Cem Sönmez Boyoğlu, Timo Balz, Aigerim Sultanbekova

Organization : Wuhan University State Key Laboratory of Information Engineering in Surveying, Mapping and Remote Sensing, Wuhan 430079, China

12:00-12:15 #307, Title: Underground Target Extraction by Local Entropy Feature of Voxelized 3D Ground Penetrating Radar

By Wang Wenlong, Hu Qingwu, Zhang Ju, Zhao Pengcheng, Ai Mingyao

Organization: Wuhan University, School of Remote Sensing, Wuhan, China

May 16 , 14:00-17:00

Room: Changsha Hall

Title: Multispectral, Hyperspectral and Thermal Sensors

Chaired by Prof.Lin Hui, Prof. Zhou Guoqing

Assistant: Prof. Zhang Longqi

14:00-14:30 Invited Talk, Title: Breakthrough in spaceborne wide-spectrum & swath hyperspectral imaging technology and its quantitative application

By Prof. Liu Yinnian

14:30-15:00 Invited Talk, Title: Remote sensing inversion of surface longwave radiation components under cloudy conditions

By Prof. Tang Bohui

15:00-15:15 #246, Title: Full-scale Semantic Segmentation of Hyperspectral Imaging based on Spatial-spectral Joint Network

By Wu Hao, Li Canhai, Li Yongchang

Organization: Liaoning Technical University, Faculty of Mapping Science and Technology, Fuxin, China; Land Satellite Remote Sensing Application Center, MNR, Beijing, China

15:15-15:30 #282, Title: Relative Truth Value Acquisition Method of Heterogeneous Surface Based on the Improved Point Spread Function

By Liu Ning, Liu Qiyue, Tao Zui, Cao Li, Zhang Wenhao, Wang Menglin, Jia Shikang, Guo Ziyang

Organization : North China Institute of Aerospace Engineering, Langfang, China

15:30-15:45 #318, Title: Selected Driver Variables for the Simulation of Land-Use and Land-Cover Change for the Republic of Djibouti: A study from Semi-arid Region

By Santa Pandit, Sawahiko Shimada, Timothy Dube

Organization : Department of Bioproduction and Environment Engineering, Tokyo University of Agriculture, Sakuragaoka, Setagaya, Tokyo, Japan

15:45-16:00 #276, Title: Building Footprint Extraction from Aerial Images using an Edge-aware YOLO-v8 Network

By Song Ziyu, Wang Weixi, Li Xiaoming, Tang Shengjun, Xie Linfu

Organization: State Key Laboratory of Subtropical Building and Urban Science, School of Architecture and Urban Planning, Shenzhen University, Shenzhen, China

16:00-16:15 #175, Title: Deep-FG-DSM: Fine-Grained DSM for High-resolution UAV Imagery Based on Deep Implicit Occupancy Networks

By Hou Yongmao, Zhang Haibo, Wang Xin, Zhan Zongqian

Organization: School of Geodesy and Geomatics, Wuhan University, Wuhan, China

16:15-16:30 #247, Title: Sparse Matching Via Point and Line Feature Fusion for Robust Aerial Triangulation of Photovoltaic Power Stations' Thermal Infrared Imagery

By Ke Tao, Ye Zhouyuan, Zhang Xiao, Liao Yifan, Tao Pengjie

Organization: School of Remote Sensing and Information Engineering; Hubei LuoJia Laboratory, Wuhan, China

16:30-16:45 #284, Title: A Robust Camera Self-Calibration Method Based On Circular Oblique Images

By Li Zhiying, Li Sitong, Qin Wei, Tao Pengjie

Organization: School of Remote Sensing and Information Engineering, Wuhan University, Wuhan, China

16:45-17:00 #346, Title: Multitemporal Seagrass Mapping And Monitoring Of Posidonia Meadows And Banquettes For Blue Carbon Conservation: The Poseidon Project

By Giulia Ceccherelli, Filiberto Chiabrando, Francesca Gallitto, Andrea Lingua, Valeria Longhi, Paolo Maschio, Francesca Matrone, Fabio Menna, Erica Nocerino, Massimiliano Scalici, Silvia Secco, Beatrice Tanduo

Organization: Department of Chemistry and Pharmacy, Università di Sassari, Via Piandanna 4, Sassari

May 16 , 14:00-16:45

Room: Hefei Hall

Title: Point Cloud Generation and Processing

Chaired by Prof. Yang Bisheng, Prof. Wu Lixin

Assistant: Prof. Xing Xuemin

14:00-14:30 Invited Talk, Title: Estimating 3D Displacements from UAV-Based Stereo Photogrammetry using a Weighted Colored Iterative Closest Point Algorithm

By Prof. Yang Zefa

14:30-15:00 Invited Talk, Title: LVI-ObjSematic: A Real time LiDAR-Visual-Inertial object level semantic SLAM for Forest Environments

By Prof. Xing Yanqiu

15:00-15:30 Invited Talk, Title: Satellite Laser Altimetry Data Processing and Application

By Prof. Li Guoyuan

15:30-15:45 #112, Title: Structured Generation Method of 3D Synthetic Tree Models for Precision Assessment

By Ao Zhuoyu, Wang Weixi, Li Yaoyu, Huang Hongsheng, Li Xiaoming, Guo Renzhong, Tang Shengjun

Organization: Research Institute for Smart Cities, School of Architecture and Urban Planning, Shenzhen University, Shenzhen, China

15:45-16:00 #334, Title: Overview and Benchmark on Multi-Modal Lidar Point Cloud Registration for Forest Applications

By Mariana Batista Campos, Leticia Ferrari Castanheiro, Dipal Shah, Wang Yunsheng, Antero Kukko, Eetu Puttonen

Organization: Department of Remote Sensing and Photogrammetry, Finnish Geospatial Research Institute, National Land Survey of Finland, 02150 Espoo, Finland

16:00-16:15 #200, Title: Matching UAV-Based Simulated High-Resolution SAR and Real SAR Images

By Aigerim Sultanbekova, Timo Balz

Organization: State Key Laboratory of Information Engineering in Surveying, Mapping, and Remote Sensing, Wuhan University, Wuhan, China

16:15-16:30 #310, Title: Geometric accuracy evaluation and analysis of ZY-1

02E IRS thermal infrared image data using GCP extraction based on phase correlation matching method

By Zhao Liping, Dou Xianhui, Mo Fan, Li Hongmo, Zhan Fangxu, Qu Dian, Xie Junfeng

Organization: Land Satellite Remote Sensing Application Center, Ministry of Nature Resource, Beijing, China

16:30-16:45 #350, Title: Experiments with Combining LiDAR and Camera Data Acquired by UAS and Smartphone to Support Mapping

By R. Tamimi, C. Toth

Organization: SPIN Laboratory, Department of Civil, Environmental and Geodetic Engineering, The Ohio State University, 470 Hitchcock Hall, 2070 Neil Ave., Columbus

May 16 , 14:00-16:30,

Room: Chongqing Hall

Title: Provincial and Commercial Satellite Remote Sensing Application

Chaired by Prof. Dong Lina, Prof. Li Haifeng

14:00-14:15 Title: Intergrated satellites services platform from China Siwei

By Long Xiaoxiang

Organization: China Siwei Surveying and Mapping Technology Co., Ltd.

14:15-14:30 Title: "PIESAT-01", The Debut Satellite of the "Nvwa Constellation" By Liao Tongkui

Organization: PIESAT Information Technology Co., Ltd.

14:30-14:45 Title: Research on intelligent monitoring of cultivated land in Sichuan Province

By Ge Jie

Organization: Sichuan Academy of Land Science and Technology (Sichuan Satellite Application Technology Center)

14:45-15:00 Title: 21AT and its Beijing Series Satellite Constellation

By Wang Pei

Organization: Twenty First Century Aerospace Technology Co. Ltd.

15:00-15:15 Title: Typical Natural resources satellite applications of land and sea in Jiangsu Province

By Zhan Yating

Organization: Natural Resources Satellite Application Technology Center of Jiangsu Province

15:15-15:30 Title: Construction of Satellite Remote Sensing Cloud Service Platform

By Liu Huiji

Organization: Beijing SatImage Information Technology Co., Ltd.

15:30-15:45 Title: Construction of Guangxi Remote Sensing Intelligent Application Service System

By Wu Hui

Organization: Natural Resources Remote Sensing Institute of Guangxi Zhuang Autonomous Region

15:45-16:00 Title: The construction, application and future of large-scale VHR

remote sensing satellite constellation

By Wang Dong

Organization: Changguang Satellite Technology Co., Ltd.

16:00-16:15 Title: Introduction to Shanghai Natural Resource Satellite Application Technique Center

By Geng Tian

Organization: Shanghai Institute of Surveying and Mapping Aerial Remote Sensing Branch

16:15-16:30 Title: Space Empowerment - Jiangsu Thxpace Commercial Remote Sensing Application Case Report

By Gu Xingfa, Bao Han

Organization: Jiangsu Tianhui Space Information Research Institute Co., Ltd.

May 16 , 14:00-16:30

Room: Beijing Hall

Title: Microwave and InSAR Technology for Earth Observation

Chaired by Prof. Timo Balz, Prof. Zhang Lu

Assistant: Prof. Li Jia

14:00-14:30 Invited Talk, Title: Sub-canopy Topography Mapping by X-band Bistatic InSAR

By Prof. Fu Haiqiang

14:30-15:00 Invited Talk, Title: Applications, Thought and Outlook of Lutan-1 L-band SAR Data in Shaanxi Province

By Prof. Yang Shuai

15:00-15:15 #234, Title: Standard PSInSAR approach: Experimental study on the sensitivity of different bounds change on the deformation

By Mostafa Ewais, Timo Balz

Organization : Wuhan University, State Key Laboratory of Information Engineering in Surveying, Mapping and Remote Sensing, Wuhan, China

15:15-15:30 #237, Title: LT-1 Sar Satellite Constellation for Permafrost Deformation Monitoring along the Tibetan Plateau Engineering Corridor

By Zhang Xuefei, Li Tao, Zhang Xiang, Zhou Xiaoqing, Lu Jing, Zhang Xueguang

Organization: Land Satellite Remote Sensing Application Center, Ministry of Natural Resources, Beijing, China

15:30-15:45 #250, Title: Intricate multiple scattering features of artificial facilities in X-Band SAR images

By Ma Sijie, Li Tao, Mahdi Motagh, Liu Jie

Organization: GNSS Research Center of Wuhan University, Wuhan 430070, Hubei, China

15:45-16:00 #257, Title: A Robust Registration Method for Multi-view SAR Images based on Best Buddy Similarity

By Zhang Yifan, Li Zhiwei, Wang Wen, Mu Minzheng, Zuo Bangwei

Organization: School of Geoscience and Info-physics, Central South University, Changsha, China

16:00-16:15 #333, Title: Assessing the Impact of the Türkiye February 2023 Earthquakes on Cultural Heritage Sites: A Multi-disciplinary Approach Utilizing

ARIA Maps and Social Media Collaboration

By Nusret Demir, Ciler Cilingiroglu

Organization: Dept. of Space Science and Technologies, Faculty of Science,
Akdeniz University, Antalya, Türkiye

16:15-16:30 #283, Title: InSAR Digital Surface Model Refinement by Block
Adjustment with Horizontal Constraints

By Wei Lai, Ke Tao, Jing Quan, Li Fanhong, Tao Pengjie

Organization: School of Remote Sensing and Information Engineering, Wuhan
University, Wuhan, China

May.15 , 10:00-10:35

Room: Fuzhou Hall

#104, Title: A Method for Detecting Photovoltaic Panel Faults Using a Drone Equipped with a Multispectral Camera

By Duan Ran, Ma Zhenling

Organization: AIEN Institute, Shanghai Ocean University, Shanghai, China

#115, Title: Sentinel 1A-2A Incorporating an Object-based Image Analysis Method for Flood Mapping and Extent Assessment

By Donya Azhand, Saied Pirasteh, Masood Varshosaz, Hejar Shahabi, Salimeh Abdollahabadi, Hossein Teimouri, Mojtaba Pirnazar, Wang Xiuqing, Li Weilian

Organization: Shaoxing Institute of Artificial Intelligence, Shaoxing University, Shaoxing, China; MAPNAGROUP (Monenco Iran Consulting Engineers), No 12, Attar St., Vanek Square, Valiasr St., Tehran, Iran

#116, Title: The Research of Collaborative system of Remote Sensing Monitoring based on Bimodal Cloud

By Yang Kaijun, Lei Fan, Can Li, Wei Jide, Zhang Zhe

Organization: China University of Geosciences (Wuhan), Wuhan, China

#117, Title: Research on Sugarcane Recognition based on Joint Spatial and Spectral Information of Satellite-Based Hyperspectral Imagery

By Shi Yujun, Su Chengjie, Yue Tao, Jiang Lin, Fan Yajun, Rong Jing

Organization: School of Civil Engineering, Guangxi Polytechnic of Construction, Nanning, China; Guangxi Key Laboratory of Spatial Information and Geomatics, Guilin University of Technology, Guilin, China

#121, Title: Mobile LiDAR-based Real-time identification of Transmission Lines

By Li Minglei, Xu Li, Li Mingfan, Qu Guoyuan, Wei Dazhou, Li Wei

Organization: College of Electronic and Information Engineering, Nanjing University of Aeronautics and Astronautics, Nanjing, China

#132, Title: Comparison of Extraction accuracy of Sugarcane from different resolution satellite images using Deep lab V3+ Mode

By Gao Xinyuan, Chen Chen, Gan Yuhang, Liu Yu

Organization: Land Satellite Remote Sensing Application Center, MNR, Beijing, China

#133, Title: A Long-time-series Spatio-Temporal-Spectral Fusion Method via Multi-task Learning

By Peng Mingyuan, Li Canhai, Zhou Xiaoqing, Li Guoyuan

Organization: Land Satellite Remote Sensing Application Center, China

#139, Title: Urban lakes change extraction using time series GaoFen-1 satellite imagery

By Luo Gan, Jiang Wei, Liu Lingjia, Wen Qingke, Liu Shuo, Sun Weichao

Organization: Research Center of Flood and Drought Disaster Reduction of the Ministry of Water Resources, China Institute of Water Resources and Hydropower Research, Beijing, China; Resources and Hydropower Research, Beijing, China

#140, Title: Neural Cellular Automata-based Land Use Changes Simulation

By Zhang Jinian, Liu Lanfa

Organization: College of Urban and Environmental Sciences, Central China Normal University, Wuhan, China; Hubei Provincial Key Laboratory for Geographical Process Analysis and Simulation, Central China Normal University, Wuhan, China

#143, Title: Heritage Building Information Modelling (HBIM): A Review of Published Case Studies

By Liu Junshan, Li Botao

Organization: School of Architecture, Georgia Institute of Technology, Atlanta, GA, USA; McWhorter School of Building Science, Auburn University, Auburn, AL, USA

#144, Title: Autonomous Landing Spot Detection for Unmanned Aerial Vehicles Based on Monocular Vision

By Cao Yanan, Li Minglei, Xu Li, Wei Mingqiang

Organization: College of Electronic and Information Engineering, Nanjing University of Aeronautics and Astronautics, Nanjing, China

#146, Title: A Method for Hierarchical Weighted Fitting of Regular Grid DSM with Discrete Points

By Guo Haoran, Li Weijun, Dong Jieke, Duan Yansong

Organization: School of Remote Sensing and Information Engineering, Wuhan University, Wuhan, China

#147, Title: Updating Orthophotos around Gas Pipelines based on "Cloud Control" Photogrammetry

By Qin Lei, Liu Yawen, Zhao Xinbo, Duan Yansong

Organization: School of Remote Sensing and Information Engineering, Wuhan University, Wuhan, China

#148, Title: Few-shot SAR vehicle target augmentation based on generative adversarial networks

By Gao Dan, Wu Xiaofang, Wen Zhijin, Xu Yue, Chen Zhengchao

Organization: Institute of Systems Engineering, Academy of Military Sciences, Chinese People's Liberation Army, Beijing, China

#154, Title: Estimating Forest Stock Volume Based on Airborne Lidar Data

By Niu xiao, Jiang Na, Hou Ke, Yin Yuan

Organization: Shandong Provincial Institute of Land Surveying and Mapping, Jinan, China

#155, Title: Research on Monitoring and Application of Ecological Restoration Engineering in Open Pit Backfilling Mines Based on Satellite Remote Sensing Data

By Liang Shuneng, Li Yang, Zhang Ning, Xiao Chenchao, Wei Hongyan

Organization: Land Satellite Remote Sensing Application Center, Ministry of Natural Resources, Beijing, China

#156, Title: Design and Implementation of Time Point Approval and Dynamic Monitoring for Rural Illegal Occupation of Farmland for Constructing Houses

By Xu Changhuang, Wei Zhao, Zhang Miao, Xiong Xiaoqing, Liu Lu, Li Jiangbo, Chun Lan, Wu Miao

Organization: Hainan Geomatics Centre of Ministry of Natural Resources, Haikou, China

#162, Title: Soybean Seedling Detection and Counting from UAV Images Based on an Improved YOLOv8 Network

By Wu Haotian, Kang Junhua, Li Heli

Organization: College of Geological Engineering and Geomatics, Chang'an University, Xi'an, China

#163, Title: Evaluating the Stability of the Jianchuan Ancient Town with TerraSAR-X images

By Gao Xinning, Li Menghua, Yang Mengshi, Tang Li, Tang Bohui

Organization: Faculty of Land Resources Engineering, Kunming University of Science and Technology, Kunming, PR China

#168, Title: Research on entity relationships in the knowledge graph of disease monitoring in grotto temples

By Wang Yiran

Organization: School of Geomatics and Urban Spatial Informatics, Beijing University of Civil Engineering and Architecture, Beijing, China

#170, Title: Facial Recognition and Classification of Terracotta Warriors in the Mausoleum of the First Emperor Using Deep Learning

By Yan Sheng

Organization: School of Geomatics and Urban Spatial Informatics, Beijing University of Civil Engineering and Architecture, Beijing, China

#171, Title: Research on the Joint Construction of a National Multi-source and Multi-resolution image Checkpoint Database

By Yan Qingqing, Liu Chang, Gao Wenchao, Wan Mingying, Wu Xuan, Dong Shuai
Organization: National Quality Inspection and Testing Center for Surveying and Mapping Products, Beijing, China

#173, Title: Weakly Supervised Learning Method for Semantic Segmentation of Large-Scale 3D Point Cloud Based on Transformers

By Zhang Zhaoning, Wang Tengfei, Wang Xin, Zhan Zongqian.

Organization: Faculty of Geosciences and Environmental Engineering, SWJTU, Chengdu, China

#262, Title: Efficient Feature Matching and Pose-graph Initialization for SfM

By Gan Wentian, Zhan Zongqian, Wang Xin

Organization: School of Geodesy and Geomatics, Wuhan University, Wuhan, China

#255, Title: Research of Multimodal Transport Potential of Major Cities in China Based on the Satellite Remote Sensing

By Dai Hailun, Fu Zhengbo, Zhang Tao, Wang Guanghui, Miao Lei, Liu Ting, Zou Yunjia

Organization: Land Satellite Remote Sensing Application Center, MNR, Beijing, China; Beijing SatImage Information Technology Co. Ltd., Beijing, China

#254, Title: A Deep Neural Network for Road Extraction with the Capability to Remove Foreign Objects with Similar Spectra

By He Haiqing, Wei Yan, Zhou Fuyang, Zhang Hai

Organization: School of Surveying and Geoinformation Engineering, East China University of Technology, Nanchang, China; Key Laboratory of Mine Environmental Monitoring and Improving around Poyang Lake of Ministry of Natural Resources, East China University of Technology, Nanchang, China

May.15 , 15:30-16:00

Room: Fuzhou Hall

#178, Title: Land Cover Classification Based on Multimodal Remote Sensing Fusion
By Chen Wei, Chen Jiage, Wan Yuewu, Liu Xining, Cai Mengya, Xu Jingguo, Cui Hongbo, Duan Mengdie

Organization: Sanya Institute of South China Sea Geology, Guangzhou Marine Geological Survey, China Geological Survey, Sanya, China

#180, Title: Surface Deformation Monitoring and Subsidence Mechanism Analysis in Beijing based on Time-series InSAR

By Wang Jinghui, Luo Ziyang, Zhou Lv, Li Xinyi, Wang Cheng, Qin Dongming

Organization: Mineral Resources Exploration Center of Henan Geological Bureau, Zhengzhou, China

#183, Title: Analysis of Surface Deformation and Related Factors over Mining Areas based on InSAR: A Case Study of Fengcheng Mine

By Wang Xiaying, Chen Shuaiqiang, Xia Yuanping, Niu Yufen, Gong Jun, Yang Yumei

Organization: Key Laboratory of Mine Environmental Monitoring and Improving around Poyang Lake of Ministry of Natural Resources, East China University of Technology, Nanchang, China

#187, Title: Method for Generating Indoor 3D Scene Graphs Based on Instance Features and Relationship Encoding

By Du Han, Cai Benhe, Li Xiaoming, Wang Weixi, Tang Shengjun

Organization: Research Institute for Smart Cities, School of Architecture and Urban Planning, Shenzhen University, Shenzhen, P.R. China

#193, Title: Image Data Stream Organization and Online Analysis Application Based on Data Cube Technology

By Huang Xinyuan, Gao Xiaoming, Ouyang Sida, Fu Zhengbo

Organization: School of Geomatics, Liaoning Technical University, Fuxin, China

#194, Title: Three-dimensional Forest Structure Features Extraction based on TomoSAR

By Hu ZhenTao, Peng Xing, Xie Qinghua, Huang Tingting, Wu Yulan

Organization: The School of Geography and Information Engineering, China University of Geosciences (Wuhan), Wuhan, China

#197, Title: Snow Penetration Depth Inversion in Tibetan Plateau Based on Coherence Scattering Model with X-band Data

By Deng Lihong, Peng Xing, Xie Qinghua, Zhou Yushan, Shen Lijun

Organization: The School of Geography and Information Engineering, China University of Geosciences (Wuhan), Wuhan, China

#198, Title: Detecting and Monitoring Artisanal Mining Operations in Semi-Arid Terrain Using Multitemporal SAR Data for InSAR Coherence Estimation and Unsupervised Classification

By Ifeanyi Chike, Timo Balz

Organization: State Key Laboratory of Information Engineering in Surveying, Mapping, and Remote Sensing, Wuhan University, Wuhan, China

#208, Title: A Comparison of Sentinel-1 Biased and Unbiased Coherence for Crop Monitoring and Classification

By Zhao Qinxin, Xie Qinghua, Peng Xing, Bao Yusong, Jia Tonglu, Yue Linwei, Fu Haiqiang, Zhu Jianjun

Organization: The School of Geography and Information Engineering, China University of Geosciences (Wuhan), Wuhan, China

#209, Title: Crop Phenology Estimation in Rice Fields Using Sentinel-1 GRD SAR Data and Machine Learning-Aided Particle Filtering Approach

By Yang Jie, Shi Hongtao, Xie Qinghua, Juan M. Lopez-Sanchez, Peng Xing, Yu Jianghao, Chen Lei

Organization: The School of Geography and Information Engineering, China University of Geosciences (Wuhan), Wuhan, China

#217, Title: Exploring the Scientific Mechanism of Tree Structure Network based on LiDAR Point Cloud Data

By Chen Haoliang, Lin Yi

Organization: Institute of RS and GIS, School of Earth and Space Sciences, Peking University, Beijing, China

#219, Title: Building Height Extraction Based on Satellite GF-7 High-Resolution Stereo Image

By Tian Zijin, Gong Yan

Organization: School of Remote Sensing and Information Engineering, Wuhan University, Wuhan, China

#220, Title: Technical Framework and Preliminary Practices of Global Geographic Information Resource Construction

By Zhang Hongwei, Chen Jiage, Wu Chenchen, Chen Lijun

Organization: National Geomatics Center of China

#221, Title: Multi-scale Target Detection Algorithm of Optical Remote Sensing Image Based on Improved YOLOv8

By Wang Haoyu, Yang Haitao, Wang Jinyu, Zho Xixuanu, Xu Yifan, Zhang Honggang

Organization: Graduate School, Space Engineering University, Beijing, China

#222, Title: Spatiotemporal coupling analysis of surface water and groundwater in Tibet based on multi-source sensors

By Wang Mengran, Yao Jiaqi, Mo Fan, Xu Nan

Organization: Academy of Eco-Civilization Development for Jing-Jin-Ji Megalopolis, Tianjin Normal University, Tianjin, China

#223, Title: Research on Dynamic Updating Technology of Digital Maps for Mobile Communications Based on Multi source Remote Sensing Images

By Bai Jin, Lu Chenni, Dong Shuai, Liu Chang, Yan Qingqing, Wang Chenyang, Gao Jingnan

Organization: School of Engineering Sciences, University of Chinese Academy of Sciences, Beijing, China

#225, Title: Long-term Satellite-derived Bathymetry of Arctic Supraglacial Lake from ICESat-2 and Sentinel-2

By Lv Jinhao, Li Shaoyu, Wang Xiaoming, Qi Chao, Zhang Meng

Organization: College of Geodesy and Geomatics, Shandong University of Science and Technology, Qingdao, China

#226, Title: Identification of Key Areas for Ecological Conservation and Restoration based on Multi-source Data and Remote Sensing Time Series Analysis

By Chen Yuanpeng, Zhou Xu, Zhou Yan, Zhang Chengpeng, Liu Yantao, Su Xiangyan

Organization: Land Consolidation and Rehabilitation Center, Ministry of Natural Resource, Beijing, China

#229, Title: Retrieval Algorithm of Chlorophyll-A Concentration for Coastal Waters based on Ridge Regression

By Li Lei, Zhang Hongmei, Xiong Zhiling, Bao Yun

Organization: School of Hydraulic Engineering, Nanchang Institute of Technology, Nanchang, China

#355, Title: Surface Topography Modelling and Ice Flow Velocity Mapping of Dalk Glacier, East Antarctica: Application of UAV Remote Sensing

By Cao Zheyi, Tang Leyue, Yuan Xiaohan, Qiao Gang

Organization: Center for Spatial Information Science and Sustainable Development Applications, Tongji University, Shanghai, China

#352, Title: An Ensemble Learning Framework for Anomaly Detection of Important Geographical Entities

By Li Haolin, Tian Jiaojiao, Wang Shan, Song Ping, She Yi

Organization: Sichuan Surveying and Mapping Product Quality Test & Control Center, MNR, China

#348, Title: Light-weight Fusion Network for UAV Visible-light and Infrared Images based on Real-time Brain-like Intelligent Computing

By Hu Kun, Qu Jiayi, Zheng Wenhao, Zhou Haoyang, Cai Tianyu, Zhang Qingle, Wang Shichao, Li Bo

Organization: Institute of Artificial Intelligence, Beihang University, Beijing, China

#340, Title: Comparing Firn Temperature Profiles Retrieval based on the Firn Densification Model and Microwave Data over the Antarctica

By Wang Xiaofeng, An Lu, Peter L. Langen, Li Rongxing

Organization: Center for Spatial Information Science and Sustainable Development, Tongji University, Shanghai, China; College of Surveying and Geo-Informatics, Tongji University, Shanghai, China

#248, Title: Research on Photovoltaic Development in Northwestern China using Remote Sensing Images

By Zou Yunjia, Zhang Tao, Wang Guanghui, Zhang Wei, Liu Ting, Dai Hailun

Organization: Land Satellite Remote Sensing Application Center, MNR, Beijing, China

#242, Title: Application of LuTan-1 SAR Data in Railway Subsidence Monitoring

By Li Wenhao, Li Tao, Zhou Xiaoqing, Liu Xian

Organization: Space Engineering University, Beijing, China

#231, Title: Semi-supervised PolSAR Image Change Detection using Similarity Matching

By Wang Lei, Peng Lingmu, Hong Hanyu, Zhao Shuwei, Lv Qiwen, Gui Rong

Organization: Hubei Key Laboratory of Optical Information and Pattern Recognition, Wuhan Institute of Technology, Wuhan, China

May.16 , 10:15-10:45

Room: Fuzhou Hall

#328, Title: Research and Application of Land Illegal Behavior Monitoring based on Video Image Recognition

By Hu Min

Organization: Shanghai Surveying and Mapping Institute, Shanghai, China

#326, Title: Positioning Improvement for Spaceborne Laser Footprint Based on Precisely Terrain Data

By Xu Chaopeng, Xie Junfeng, Yang Xiaomeng, Lv Xin

Organization: Land Satellite Remote Sensing Application Center, Ministry of Natural Resources of China, Beijing, China

#325, Title: Integrating Data and Model Optimization for Improved Multi-Class Land Cover Classification Using Multispectral Remote Sensing Data

By Li Yichuan, Sun Huanying, Yu Junchuan, Xie Mingying, Jin Dingjian, Wang Ming, Xia Guobin

Organization: China Aero Geophysical Survey and Remote Sensing Center for Natural Resources, China

#324, Title: Smart Bridge Damage Assessment through Integrated Multi-Sensor Fusion Vehicle Monitoring

By Karamoozian, Aminreza; Varshosaz, Masood, Karamoozian, Amirhossein; Li Huxiong, Fang Zhaoxi

Organization: Institute of Artificial Intelligence, Shaoxing University, Zhejiang, China

#323, Title: Critical Examination of 3D Building Modeling through UAV Frame and Video Imaging

By Hassan Rezvan, Elham Rezagholi, Masood Varshosaz

Organization: Geomatics Engineering Faculty, K. N. Toosi University of Technology, Tehran, Iran

#322, Title: Efficient Geometric Correction Workflow for Airborne Hyperspectral Images through DEM-Driven Correction Techniques

By Yu Junchuan, Li Yichuan, Ge Daqing, Chen Yangyang, Wu Qiong, Ma Yanni

Organization: China Aero Geophysical Survey and Remote Sensing Center for Natural Resources, China; Technology Innovation Center for Geohazard Identification and Monitoring with Earth Observation System, Ministry of Natural Resources, China

#321, Title: A Brief Discussion on the Overall Classification Algorithm of Airborne LiDAR Point Cloud

By Hu Jinrong, Li Juanjuan

Organization: Yunnan Remote Sensing Center, Huancheng West Road, Kunming City, Yunnan Province, China

#320, Title: Land Surface Temperature Retrieval From GF5-01A Based on Split-Window Algorithm

By Liu Yu, Wang Yongxin, Wang Guanghui

Organization: Land Satellite Remote Sensing Application Center, MNR, Beijing, China

#319, Title: Cross-modal Change Detection Flood Extraction Based on Self-supervised Contrastive Pre-training

By Feng Wenqing, Guan Fangli, Sun Chenhao, Xu Wei

Organization: School of Computer Science, Hangzhou Dianzi University, Hangzhou, China

#315, Title: Hourly near-ground NO₂ concentration retrieval from geostationary satellite observations

By Song Jie, Zang Lin, Mao Feiyue, Zhang Yi, Chen Jiangping

Organization: School of Remote Sensing and Information Engineering, Wuhan University, Wuhan, China

#311, Title: Leveraging Deep Learning for Automated Reconstruction of Indoor Unstructured Elements in Scan-to-BIM

By Mostafa Mahmoud, Chen Wu, Yang Yang, Liu Tianxia, Li Yaxin

Organization: Department of Land Surveying and Geo-Informatics, The Hong Kong Polytechnic University, Hong Kong, China; Public Works Department, Cairo University, Giza, Egypt

#308, Title: Research on Satellite and Ground Multi-Sensor Collaborative Sensing Method for Floating Plants

By Li Naiyi, Liang Xin, Chen Meng

Organization: Shanghai Surveying And Mapping Institute, Shanghai, China

#301, Title: Quality Check Analysis of Basic Geographic Entity Data Results

By Wang Xiaodi, Chen Chunxi, Qiu Bo, Yan Qingqing, Luo Fujun

Organization: National Quality Inspection and Testing Center For Surveying and Mapping Products, Beijing, China

#294, Title: RANSAC-Based Planar Point Cloud Segmentation Enhanced by Normal Vector

and Maximum Principal Curvature Clustering

By Ling Yibo, Wang Yuli, Ting On Chan

Organization: School of Geography and Planning, Sun Yat-sen University, Guangzhou, China

#293, Title: Structural Analysis of Glazed Tubular Tiles of Oriental Architectures Based on 3D Point Clouds for Cultural Heritage

By Ting On Chan, Ling Yibo, Wang Yuli, Kin Sum Li, Shen Jing

Organization: School of Geography and Planning, Sun Yat-sen University, Guangzhou, China

#292, Title: FS_YOLOv8: A Deep Learning Network for Ground Fissures Instance Segmentation in UAV Images of the Coal Mining Area

By Xu Zhihua, Lin Yunhao, Zhang Zhenxin

Organization: College of Geoscience and Surveying Engineering, China University of Mining and Technology (Beijing), Beijing, China

#288, Title: Quality Inspection and Problem Analysis of Satellite Image Data in Land Use Survey

By Dong Shuai, Lu Chenni, Gao Wenchao, Liu Chang, Bai Jin

Organization: National Quality Inspection and Testing Center for Surveying and Mapping Products, Beijing, China; National Quality Inspection and Testing Center for Surveying and Mapping Products, Beijing, China

#286, Title: A Straightforward Camera Calibration Method Based on a Single Low-cost Cubical Target

By Cai Yuezhen, Xia Linyuan, Ting On Chan

Organization: School of Geography and Planning, Sun Yat-sen University, Guangzhou, China

#279, Title: Accuracy Assessment of UAV Photogrammetry System with RTK Measurements for Direct Georeferencing

By Niu Zhuangqun, Xia Hui, Tao Pengjie, Ke Tao

Organization: School of Remote Sensing and Information Engineering, Wuhan University, Wuhan, China

#273, Title: Georeferencing of Satellite Images with Geocoded Image Features

By Zhang Yating, Li Heyi, Yu Jing, Tao Pengjie

Organization: School of Remote Sensing and Information Engineering, Wuhan University, Wuhan, China

#269, Title: Towards Integration of IndoorGML and GDF for Robot Navigation in Warehouses

By Xiang Ziwei, Yu Kunlin, Wang Zhiyong

Organization: School of Civil Engineering and Transportation, South China University of Technology, Guangzhou, China

#268, Title: Emerging Spatio-temporal Hot Spot Analysis of Beijing Subsidence Trend Detection Based on PS-InSAR

By Zhang Wei, Zhang Tao, Fu Zhengbo, Ai Ping, Yao Guoqing, Qi Jianwei

Organization: Land Satellite Remote Sensing Application Center, MNR. Beijing, China; China University of Geosciences, Beijing, China

#344, Title: Building Extraction from LiDAR Point Clouds Based on Revised RandLA-Net

By Zhang Yiru, Wang Tao, Lin Xiangguo, Zhao Zihao, Wang Xiwei

Organization: MOE Lab of 3D Spatial Data Acquisition and Application, Capital Normal University, Beijing, China

College of Resource Environment and Tourism, Capital Normal University, Beijing, China

#240 Title: Analysis the Multiple Scattering Characteristics of Cable-Stayed Bridges with Multi-band SAR

By Xu Yanhao, Wen Yangmao, Li Tao, Ma Sijie, Liu Jie

Organization: School of Geodesy and Geomatics, Wuhan University, Wuhan, China

#218 Title: Topographic analysis supported by a knowledge graph: A case of ridge landscape recognition

By Yu Huafei, Wu Hao, Ai Tinghua

Organization: School of Resource and Environmental Sciences, Wuhan University, Wuhan, China

#249, Title: Suitability analysis for implementing wind and solar farms based AHP method: Case study in Inner Mongolia, China.

By Liu Ting, Zhang Tao, Zou Yunjia, Wang Guanghui, Dai Hailun, Zhang Wei

Organization: Land Satellite Remote Sensing Application Center, MNR, Beijing, China