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The Seventh International Conference on Agro-Geoinformatics

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GS05	Ecosystem, Ecology, energy, Weather and climate analysis for agriculture and agriculture sustainability
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GS07	Cropland mapping and land use / landcover change monitoring
GS08	Cropland evapotranspiration, soil moisture, and soil monitoring
GS09	Agriculture drought
GS10	Agriculture diseases disaster and damage monitoring
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GS13	Cropland suitability analysis and cropland monitoring
GS14	Multi-disciplinary session
GS15	Agriculture and Water
GS16	**Special Session:** Big data and AI in Agriculture
GS17	**Special Session:** Cropland change mapping and monitoring
GS18	**Special Session:** Natural disaster monitoring and evaluating
GS19	**Special Session:** Remote sensing of coastal zone
GS20	**Special Session**: Spatiotemporal crop drought monitoring and yield estimate
GS21	**Special Session**: Crop Quantitative Remote Sensing and Data Assimilation - Progress NSFC-STFC Newton Fund Project
GS22	**Special Session**: Sentinel of Wheat – STFC Newton Fund Project Progress
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GS24	Poster Session

Agro-Geoinformatics 2018 Conference-Program August 06-09, 2018

Check in time: 07:00am – 08:30 am

Monday, August 06	08:30 – 12:25
Opening ceremony **Chair: Liping Di, Hanlin Chen**	**Location: Room 117** **Shaw Science Building**
Time	Events
08:30-09:00	Opening ceremony & welcome addresses
09:00-09:10	Announcement of the next Agro-Geoinformatics conference Prof. Liping Di, CSISS/George Mason University
Keynote speech **Chair: Ruixin Yang, Berk Ustundag**	**Location: Room 117** **Shaw Science Building**
Time	Events
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09:45-10:20	Mr. Wenjian Zhang Title: The WMO Strategy for the Agriculture Meteorology.
10:20-10:50	Coffee Break/Group Photos
10:50-11:25	Dr. Xingfa Gu Title: Introduction to China Civil Space Infrastructure
11:25-12:00	Prof. Jingfeng Huang Title: Estimation of crop parameters using multisource satellite data
12:00-12:35	Prof. Qian (Jenny) Du Title: Airborne Hyperspectral Remote Sensing for Precision Farming

Plenary Sessions Schedule

Tuesday, August 07	08:30 – 10:30
Plenary Session **Chair: Jiali Shang, Zhongxin Chen**	**Location: Room 211-212** **Shaw Science Building**
Time	Events
08:30-09:00	Multi-Model Regional Simulation of Climate Change Impacts on Agroecosystems for Semi-arid Regions Menas Kafatos
09:00-09:30	WMO WAMIS and Future Enhancements and Applications in Monitoring Global Food Security John Qu
09:30-10:00	Monitoring Dryland Agriculture Activities in Africa Qinghan Dong
10:00-10:30	Smart Sensing of Agricultural Land Systems Wenbin Wu
10:30-10:50	Coffee Break

Wednesday, August 08	08:30 – 10:30
Plenary Session **Chair: Wenbin Wu, Lizhen Lu**	**Location: Room 211-212** **Shaw Science Building**
Time	Events
08:30-09:00	Geospatial Data Services for IoT Based Smart Irrigation Systems Berk Ustundag
09:00-09:30	Geospatial data provenance modelling and interoperability Peng Yue
09:30-10:00	Regional and Global Estimates of PM2.5 Emissions From Agricultural Land Constrained By Satellite Observations Daniel Tong
10:00-10:30	Novel Multi-Scale Machine Learning-Based Framework for Habitat Suitability Prediction of Invasive Alien A. Mearnsii Cecilia Masemola
10:30-10:50	Coffee Break

Thursday, August 09	08:30 – 10:30
Plenary Session **Chair: Jingfeng Huang, Daniel Tong**	**Location: Room 211-212** **Shaw Science Building**
Time	Events
08:30-09:00	A History of Building a Sustainable Bio-Product Value Chain in Ontario, Canada, and Future Plans Don McCabe
09:00-09:30	Seeding date dynamics and their association with crop yield: a 17-year case study in Manitoba, Canada Jiali Shang
09:30-10:00	Mapping plastic mulched landcover (PML) with remote sensing imagery Lizhen Lu
10:00-10:30	Cloud-computing Applications in Agricultural Remote Sensing Zhongxin Chen
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Time	ID	Title & Authors
14:00-14:20	25	Research of regional drought forecasting based on phase space reconstruction and wavelet neural network model - Miao Tian
14:20-14:40	36	The Delineation of Drought Areas in Nakhon Ratchasima Province, Thailand - Wichai Pantanahiran
14:40-15:00	113	Drought monitoring over the Northeast China Using GRACE satellite data from 2002 to 2016 - Ran Huang
15:00-15:20	237	Clustering Small Parcels for Optimizing the Number of Satellite Frames to Download - D Turgay Altilar
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Monday, August 06			14:00 - 15:20
GS15 GENERAL SESSION: AGRICULTURE AND WATER **Chair: Yun Chen**			**Location: Room-212** **Shaw Science Building**

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14:20-14:40	49	Simulation of Water Environment in Chaohe River Basin Based on HSPF Model - Rongrong Qiao
14:40-15:00	220	Building water resource management and decision service: in case study of Qingyi river in China - Xiaolei Wang
15:00-15:20	154	Response of Ecological Water Supply Service to Land Cover Change in the source area of the Yellow River - Aihong Gai

Monday, August 06			14:00 - 15:20
GS 17 Special Session: Cropland change mapping and monitoring **Chair: Le Yu**			**Location: Room-203** **Sixth Teaching Building**

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14:20-14:40	155	Cropland area and fragmentation changes on the Northeast China Plain in last three decades (1980s-2010s) - Le Yu

| 14:40-15:00 | 198 | Cropland mapping using Harmonized Landsat-8 and Sentinel-2 data - Pengyu Hao |
| 15:00-15:20 | 320 | Mapping oil palm plantation expansion in Malaysia using ALOS-1/2 PALSAR-1/2 data - Yuqi Cheng |

Monday, August 06		14:00 - 15:20
GS13 GENERAL SESSION: CROPLAND SUITABILITY ANALYSIS AND CROPLAND MONITORING Chair: Qian Song		Location: Room-211 Sixth Teaching Building
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14:20-14:40	61	Detecting spatio-temporal changes of agricultural land use in Heilongjiang province, China using MODIS time-series data - Qiong Hu
14:40-15:00	102	Regional Winter Wheat Maturity Date Prediction Using Remote Sensing-Crop Model Data Assimilation and Numerical Weather Prediction - Xinran Gao
15:00-15:20	108	Mapping crop leaf area index from multi-spectral imagery onboard an unmanned aerial vehicle - Wanxue Zhu

Monday, August 06		14:00 - 15:20
GS01 GENERAL SESSION: ACQUISITION, PROCESSING, AND INFORMATION EXTRACTION OF REMOTELY SENSED DATA Chair: Zhenhai Li		Location: Room-311 Sixth Teaching Building
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14:20-14:40	262	Fusion of Sentinel -1 and Sentinel -2 data for Plastic-Covered Greenhouse detection - Yu Han
14:40-15:00	110	A comparative study of using ANUSPLIN and GWR model for downscaling GPM satellite precipitation data - Wang Simeng
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GS13 GENERAL SESSION: CROPLAND SUITABILITY ANALYSIS AND CROPLAND MONITORING **Chair: Zhe Guo**	**Location: Room-211** **Sixth Teaching Building**

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GS01 GENERAL SESSION:ACQUISITION, PROCESSING, AND INFORMATION EXTRACTION OF REMOTELY SENSED DATA **Chair: John Qu**	**Location: Room-311** **Sixth Teaching Building**

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GS01 GENERAL SESSION:ACQUISITION, PROCESSING, AND INFORMATION EXTRACTION OF REMOTELY SENSED DATA Chair: Guijun Yang			Location: Room-311 Sixth Teaching Building
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GS03 GENERAL SESSION: REMOTE SENSING APPLICATION IN CHEMICAL COMPONENT ANALYSIS OF AGRICULTURE FIELDS Chair: Kunping Jiang		Location: Room-211 Sixth Teaching Building
Time	ID	Title & Authors
14:00-14:20	55	Characteristics of CH4 Emission in Double Paddy Field under Climate Change in China Simulated by CMIP5 Climate Model Projections - Xiangyi Wang
14:20-14:40	217	Evaluating geo-located Twitter data for unban land use classification at the parcel level - Xiaoyu Qiu
14:40-15:00	124	Simulating the photosynthetic active radiation (PAR) within different corn canopy using DART model - Jiang Kunping
15:00-15:20	263	Comparison RGB digital camera with active canopy sensor based on UAV for rice nitrogen status monitoring - Songyang Li
Coffee Break		

Tuesday, August 07		14:00 - 15:20
GS01 GENERAL SESSION: ACQUISITION, PROCESSING, AND INFORMATION EXTRACTION OF REMOTELY SENSED DATA Chair: Li Lin		Location: Room-311 Sixth Teaching Building
Time	ID	Title & Authors
14:00-14:20	214	Spatial Information Retrieval Optimization using Solr and GIS - Jiajun Xu
14:20-14:40	341	In-Season Crop Type Classification with Google Earth Engine – Chen Zhang
14:40-15:00	245	PolSAR Image Crop Classification Based on Deep Residual Learning Network - Xin Mei
15:00-15:20	340	Using Remote Sensing and GIS Techniques to Evaluate Air Quality (PM2.5) in China from 1998 to 2016 – Li Lin

Tuesday, August 07			15:40 - 17:20
GS07 GENERAL SESSION: CROPLAND MAPPING AND LAND USE / LANDCOVER CHANGE MONITORING **Chair: Yonglin Shen**			**Location: Room-211** **Shaw Science Building**
Time	ID	Title & Authors	
15:40-16:00	132	Crop type mapping via remote sensing time series data Using Deep Convolutional neural network - Diyou Liu	
16:00-16:20	146	A fully automated phenology-based method for winter wheat mapping — a case study in China - Qi Dong	
16:20-16:40	160	Research on the landscape pattern of tidal flat reclamation zones in Jiangsu coastal area based on GF-2 satellite imagery - Jingjing Wang	
16:40-17:00	236	Analysis on the Spatial and Temporal Distribution of Land Urbanization Using the Nighttime Light Data and Coordination Development in China - Xiaohui He	
17:00-17:20	288	Estimating NOx emissions from fertilized agricultural soil using multi-source remote sensing data - Yonglin Shen	

Tuesday, August 07			15:40 - 17:20
GS06 GENERAL SESSION: CROP YIELD MODELING AND ESTIMATION **Chair: Lizhen Lu, Yuan Tao**			**Location: Room-212** **Shaw Science Building**
Time	ID	Title & Authors	
15:40-16:00	201	Growth monitoring and planting decision supporting for pear during the whole growth stage based on PIE-LANDSCAPE system - Linlin Guo	
16:00-16:20	156	Winter Wheat Grain Protein Content Estimation through Leaf and Canopy Sensor Measurements - Xiaoyu Song	
16:20-16:40	228	Object-Based Plastic-Mulched Landcover Extraction Using Integrated Sentinel-1 and Sentinel-2 fused data - Yuan Tao	
16:40-17:00	333	Winter wheat climate production classification prediction based on Random forest - Xiaotong He	
17:00-17:20	277	yield estimation for spring wheat based on hyperspectral data in semi-arid region of Loess Plateau – Xiaoping Wang	

Tuesday, August 07			15:40 - 17:20
GS 16 Special Session: Big data and AI in Agriculture **Chair: Zhenhong Du**			**Location: Room-203** **Sixth Teaching Building**
Time	ID	Title & Authors	
15:40-16:00	298	Agriculture Temporal and Spatial Big Data and Artificial Intelligence - Zhenhong Du	

Time	ID	Title & Authors
16:00-16:20	299	Remote sensing based spatio-temporal analysis for maize growth season identification - Hao Jiang
16:20-16:40	300	Deep Extraction of Cropland Parcels from High-Resolution Remotely Sensed Imagery - Liegang Xia
16:40-17:00	301	Digital mapping of soil organic carbon supported by AI Technology for precision agriculture - Wen Dong
17:00-17:20	302	Missing value estimation of time series indices for crop classification by a field based spectral temporal similarity - Wei Wu

Tuesday, August 07	15:40 - 17:20
GS03 GENERAL SESSION: REMOTE SENSING APPLICATION IN CHEMICAL COMPONENT ANALYSIS OF AGRICULTURE FIELDS **Chair: Liang Liang**	**Location: Room-211** **Sixth Teaching Building**

Time	ID	Title & Authors
15:40-16:00	174	Diagnosis of Nitrogen Status in Winter Oilseed Rape (Brassica napus L.) Using Unmanned Aerial Vehicle (UAV) Multispectral images - Shishi Liu
16:00-16:20	258	Wheat canopy nitrogen content estimation using new hyperspectral indices and random forest regression algorithm - Liang Liang
16:20-16:40	330	Estimating the corn canopy LAI and chlorophyll content using UAV remote sensing image - Wang Wei
16:40-17:00	8	Variations in ecosystem service value in response to paddy expansion in the Sanjiang Plain - Fengqin Yan
17:00-17:20	180	The Effect of Fractional – Order Differential Equations on Geographically Weighted Regression Model of Zn in urban soil of Pingtan, Fujian Province - Xue Lin

Tuesday, August 07	15:40 - 17:20
GS01 GENERAL SESSION:ACQUISITION, PROCESSING, AND INFORMATION EXTRACTION OF REMOTELY SENSED DATA **Chair: Jiale Jiang**	**Location: Room-311** **Sixth Teaching Building**

Time	ID	Title & Authors
15:40-16:00	23	Inspecting Unattended Irrigation Canals of Dujiangyan in Mountainous Area with UAV Remote Sensing Technology-Jiayuan Lin
16:00-16:20	37	Remote Sensing Monitoring of Debris Flow Area in Dabaini River Basin of Xiaojiang,Dongchuan County - Hui Yu
16:20-16:40	46	A new spatio-temporal image fusion algorithm for field-level crop monitoring - Jiale Jiang
16:40-17:00	53	Extraction of tea plantation with high resolution Gaofen-2 image - Yunzhi Chen
17:00-17:20	257	Association and Recommendation for Attribute Characteristics of Scientific Data Based on Similarity Measurement - Shaohua Gao

Breakout Sessions Schedule, August 8

Wednesday, August 08			10:50 - 12:10
GS07 GENERAL SESSION: CROPLAND MAPPING AND LAND USE / LANDCOVER CHANGE MONITORING **Chair: Hao Hou**			**Location: Room-211** **Shaw Science Building**
Time	ID	Title & Authors	
10:50-11:10	161	Monitoring and modelling changes in cropland under rapid urbanization: A case study of Hangzhou from 1990 to 2015 - Hao Hou	
11:10-11:30	153	Landscape Pattern Analysis and Prediction in Qingyang City Based on CA-Markov Model - Aihong Gai	
11:30-11:50	196	Remote Sensing Monitoring Research on Temporal and Spatial Change of Coastal Wetlands in Bohai Rim during Recent 20 Years - Jitao Bi	
11:50-12:10	197	Extraction of Cropland Geographic Information Based on OpenStreetMap - Zheng Sun	

Wednesday, August 08			10:50 - 12:10
GS08 GENERAL SESSION: CROPLAND EVAPOTRANSPIRATION, SOIL MOISTURE, AND SOIL MONITORING **Chair: Xiaoping Wang**			**Location: Room-212** **Shaw Science Building**
Time	ID	Title & Authors	
10:50-11:10	14	Spectral response of soil organic matter by principal component analysis - Xiaohe Gu	
11:10-11:30	69	Idengficiation And Assessment of Soil Heavy Metals Around The Mining Areas Using Time-Series Gf-2 Remotely Sensed Imagery - Jinling Zhao	
11:30-11:50	91	Retrieving surface soil moisture over crop fields based on time-series characteristics of Sentinel-1 data. - Hao Deng	
11:50-12:10	149	Soil Moisture Assessment with respect to Plant Temperature Sensory Mechanism using Remote Sensing - Ayda Aktas	

Wednesday, August 08			10:50 - 12:10
GS11 GENERAL SESSION: CROPLAND AND CROP CONDITION MONITORING **Chair: Xiaodong Zhang**			**Location: Room-203** **Sixth Teaching Building**
Time	ID	Title & Authors	
10:50-11:10	230	Corn Crop Growth Dynamic Assessment at County Scale	

Time	ID	Title & Authors
		Based on a Data Fusion method - Yonglan Qian
11:10-11:30	253	Assessment of monitoring regional cropping system with temporal extraction model based on GF-1/WFV imagery - Shuo Li
11:30-11:50	248	Monitoring of Sugarcane Crop based on Time Series of Sentinel-1 data: a case study of Fusui, Guangxi - Xing Yuan
11:50-12:10	249	Dynamic monitoring and evaluation of agricultural planting before and after Syrian civil war - Yuman Sun

Wednesday, August 08		10:50 - 12:10
GS14 GENERAL SESSION: MULTI-DISCIPLINARY SESSION **Chair: Hong Fan**		**Location: Room-211** **Sixth Teaching Building**
Time	ID	Title & Authors
10:50-11:10	1	Geo-Enabled Text Analytics for Topical Sentiments and Knowledge Extraction - Feras Batarseh
11:10-11:30	9	Study on the teaching reform of "Outstanding Engineers" mining major course - Lifeng Liu
11:30-11:50	21	Uncertainty analysis and inputs optimization of PROSAIL model using Markov Chain Monte Carlo method - Jiayu Wu
11:50-12:10	44	The spatial correlation analysis of retail shops sales performance in Guiyang,China - Luyao Wang
	Lunch	

Wednesday, August 08		10:50 - 12:10
GS11 GENERAL SESSION: CROPLAND AND CROP CONDITION MONITORING **Chair: Ning Yang**		**Location: Room-311** **Sixth Teaching Building**
Time	ID	Title & Authors
10:50-11:10	116	Method for Forecasting Regional Maize Maturity Based on Integrated Area of Time Series LAI Curve - Jianxi Huang
11:10-11:30	118	Design and Implement of the Random Forest Crop Classification Parallel System Based on Geographical Grid - Ning Yang
11:30-11:50	136	Extraction of maize lodging stress environment based on meteorological elements - Xuli Zan
11:50-12:10	194	Spatial autocorrelation of winter wheat in sampling units and its effect on sampling efficiency - Geji Zhong
	Lunch	

Wednesday, August 08			14:00 - 15:20
GS07 GENERAL SESSION: CROPLAND MAPPING AND LAND USE / LANDCOVER CHANGE MONITORING **Chair: Liang Liang**			**Location: Room-211 Shaw Science Building**
Time	ID	Title & Authors	
14:00-14:20	123	Research on Remote Sensing Crop Classification Methods Based on Historical Reference Data - Lin Zhang	
14:20-14:40	209	County Acreage Estimation Based on Remote Sensed Land Cover Data and Administrative GIS Data - Zhengwei Yang	
14:40-15:00	219	Wheat coverage estimation using multi-spectral image from unmanned aerial vehicle -Jinran Liu	
15:00-15:20	121	Comparison of different crop residue indices for estimating crop residue cover using field observation data - Cai Wenting	
Coffee Break			

Wednesday, August 08			14:00 - 15:20
GS08 GENERAL SESSION: CROPLAND EVAPOTRANSPIRATION, SOIL MOISTURE, AND SOIL MONITORING **Chair: Chen Zhang**			**Location: Room-212 Shaw Science Building**
Time	ID	Title & Authors	
14:00-14:20	164	Soil Organic Matter Estimation Method Considering Attribute Similarity and Spatial Correlation - Yunbing Gao	
14:20-14:40	172	Quantitative analysis of salinized soil reflectance spectra during Microbial Remediation Processes based on Genetic algorithms and PLSR - Yu Wu	
14:40-15:00	173	Hyperspectral Inversion of Soil Moisture Content Based on SOILSPECT Model - Ying Liu	
15:00-15:20	177	Mapping of cadmium in soils based on multivariate statistics - Jing Yang	
Coffee Break			

Wednesday, August 08			14:00 - 15:20
GS10 GENERAL SESSION: AGRICULTURE DISEASES DISASTER AND DAMAGE MONITORING **Chair: Ruixin Yang**			**Location: Room-203 Sixth Teaching Building**
Time	ID	Title & Authors	
14:00-14:20	18	The quantitative evaluation of the impacts of the cold(frost) and freezing disaster on sugarcane in January 2018 - Zhaomin Kuang	

Time	ID	Title & Authors
14:20-14:40	20	How much would different temporal scales affect the pattern of rice exposure to heat stress in China? - Pin Wang
14:40-15:00	30	An observation capability information association model for flood monitoring-supported sensors' integration management - Lu Tian
15:00-15:20	83	Techniques and Methodology in the Monitoring of Plant Diseases and Insects with Remote Sensing - Xuexue Zhang

Wednesday, August 08			14:00 - 15:20
GS23 Special Session: Social media data as geographical information: State of arts, methodologies, and applications Chair: Chao Yang			Location: Room-211 Sixth Teaching Building
Time	ID	Title & Authors	
14:00-14:20	343	Social Media Check-in data for social sensing: architecture, methodology, and applications - Chao Yang	
14:20-14:40	344	A Social media check-in big data service framework based on distributed computing technologies - Ji Li	
14:40-15:00	345	Urban Development Research Based on Sina Weibo Check-in Data and Nighttime Light Data - Jie Li	
15:00-15:20			

Wednesday, August 08			14:00 - 15:20
GS 19 Special Session: Remote sensing of coastal zone Chair: Xiaoyu Zhang			Location: Room-311 Sixth Teaching Building
Time	ID	Title & Authors	
14:00-14:20	19	Mapping of oriental migratory locust habitat using Landsat OLI images in Dongying City, China - Xiaomei Zheng	
14:20-14:40	192	Marine Aquaculture Feature Analysis with Different Marine Environment Conditions Based on GF-3 SAR Imagery - Jianchao Fan	
14:40-15:00	231	Detection of Alone Stress and Combined Stress by Cu / Ni in Wheat Using Visible to Near-Infrared Spectroscopy - Chao Zhou	
15:00-15:20	193	Land use pattern evolution and trend simulation in Nansi Lake - Yun Zhang	

Wednesday, August 08			15:40 - 17:20
GS07 GENERAL SESSION: CROPLAND MAPPING AND LAND USE / LANDCOVER CHANGE MONITORING **Chair: Junmei Tang**			**Location: Room-211 Shaw Science Building**
Time	ID	Title & Authors	
15:40-16:00	227	Object-based random forest classification for mapping plastic mulched landcover from Gaofen-2 and Landsat-8 OLI images - Chuang Wang	
16:00-16:20	229	Past and Future Trajectories of Farmland Loss during Rapid Urbanization - Junmei Tang	
16:20-16:40	251	Extraction of rice from Baisha Autonomous County of Hainan Province based on Sentinel-1 radar data - Jingjian Liu	
16:40-17:00	252	Hybrid Discrimination on Eucalytpus Extraction - Rujee Rodcha	

Wednesday, August 08			15:40 - 17:20
GS08 GENERAL SESSION: CROPLAND EVAPOTRANSPIRATION, SOIL MOISTURE, AND SOIL MONITORING **Chair: Yanmin Yao**			**Location: Room-212 Shaw Science Building**
Time	ID	Title & Authors	
15:40-16:00	190	Soil Properties Mapping Using HyMap Airborne Hyperspectral Image and Field Data - Yanmin Yao	
16:00-16:20	205	A comprehensive assessment of remotely sensed soil moisture products over Europe- Hongliang Ma	
16:20-16:40	275	Spatiotemporal Comparative Analysis of Agricultural Development Processes between the Three Largest Black Soil Regions in the World - Jiuchun Yang	
16:40-17:00	176	Agricultural Drought Monitoring using Sentinel-2 NIR and SWIR bands - Yuanyuan Chen	
17:00-17:20	67	Ecological Land Cold Island Effect Evaluation Based on Land Surface Temperature Retrieval - Zhang Xueru	

Wednesday, August 08			15:40 - 17:00
GS10 GENERAL SESSION: AGRICULTURE DISEASES DISASTER AND DAMAGE MONITORING **Chair: Ruixin Yang**			**Location: Room-203 Sixth Teaching Building**
Time	ID	Title & Authors	
15:40-16:00	165	Comparison between TMPA and IMERG Precipitation Products on Flood Discharge Estimation- Nasreddine Belabid	
16:00-16:20	304	Remote sensing monitoring and evaluation of the impact of freezing hazard on citrus production——a case study in	

		Quzhou，Zhejiang Province - Rui Li
16:20-16:40	312	Estimation of the relationship between satellite-derived vegetation indices and live fuel moisture towards wildfire risk in Southern California - Kristen Whitney
16:40-17:00	117	Evaluation of discharge estimation using Global Flood Detection System - Zhuolin Shi
17:00-17:20	279	Spatio-Temporal Big Data Management for Agricultural Data Clouds - D Turgay Altilar

Wednesday, August 08			15:40 - 17:00
GS14 GENERAL SESSION: MULTI-DISCIPLINARY SESSION Chair: Chunlu Xue			Location: Room-211 Sixth Teaching Building
Time	ID	Title & Authors	
15:40-16:00	206	20-year (1997-2017) annual dynamics of impervious surface in the Wuhan Metropolitan Area, China, derived from time series Landsat imagery - Gaoyun Shen	
16:00-16:20	221	Research and Realization of Intelligent Supervision Technique for Land Consolidation - Changlin Luo	
16:20-16:40	226	Multidimensional information analysis of rural land circulation based on right to rural land contractual management registration: Taking Xin Town as an example - Chunlu Xue	
16:40-17:00	271	Validation and comparison of two commercial software for mosaicking unmanned aerial vehicle images - Pengfei Chen	

Wednesday, August 08			15:40 - 17:20
GS 19 Special Session: Remote sensing of coastal zone Chair: Jianhua Zhao			Location: Room-311 Sixth Teaching Building
Time	ID	Title & Authors	
15:40-16:00	244	Remote Sensing Detection and Analysis of Change of Land-use Classification in Coastal Zone Based on Deep Learning——A Case Study of Xiangshan Port in Ningbo City, Zhejiang Province - Yixuan Xiong	
16:00-16:20	246	Spectral features-and geospatial semantics-based extraction of coastal cage aquaculture with GF-2 image-Tinggang Wang	
16:20-16:40	261	Dynamic Monitoring Migration of Explosive of Tianjin 8.12 and Ecological Assessment of Bohai Sea with GOCI Images - Yong Du	
16:40-17:00	266	Remote sensing assessment of ecological healthy on Qiantang river estuary - Yong Du	
17:00-17:20	293	Biogenic Shell Sediments Production in Fu-ning Bay Estimated with Empirical Models and Offering Clues for Satellite Remote Sensing - Dingtian Yang	

Breakout Sessions Schedule, August 9

Thursday, August 09			10:50 - 12:10
GS07 GENERAL SESSION: CROPLAND MAPPING AND LAND USE / LANDCOVER CHANGE MONITORING **Chair: Jie Lin**			**Location: Room-211** **Shaw Science Building**
Time	ID	Title & Authors	
10:50-11:10	260	Fine Classification of Typical Farm Crops in Southern China Based on Airborne Hyperspectral Remote Sensing Images - Xin Hu	
11:10-11:30	272	Geo-Parcel Based Sugarcane Mapping by Integrating Field Plot with Multi-Sensor Satellite Data - Qiting Huang	
11:30-11:50	290	Impact of Non-Proportional Training Sampling Of Imbalanced Classes on Land Cover Classification Accuracy With See5 Decision Tree - Zhengwei Yang	
11:50-12:10	141	A new method to determine the dynamic threshold values of winter wheat - Shiji Li	

Thursday, August 09			10:50 - 12:30
GS 21 Special Session: Crop Quantitative Remote Sensing and Data Assimilation - Progress NSFC-STFC Newton Fund Project **Chair: Zhongxin Chen & Hongyuan Ma**			**Location: Room-212** **Shaw Science Building**
Time	ID	Title & Authors	
10:50-11:10	233	Assessment of GF-3 Full Polarimetric SAR Data for Dryland Crop Classification with Different Polarimetric Decomposition Methods - Changan Liu	
11:10-11:30	281	Mapping plastic-mulched farmland using optical and radarsat remote sensing data - Hasituya	
11:30-11:50	51	Ensemble forecasting of regional winter wheat yield based on crop model using ECMWF TIGGE dataset - Hongyuan Ma	
11:50-12:10	104	The spatial-temporal variation of land surface albedo in Hengshui during 2001-2015 by blending Landsat and GLASS data - Qi Li	
12:10-12:30	93	Winter Wheat Yield Estimation Based on An Enhancced 2-D Correlation Spectral Method - Yao Zhang	

Thursday, August 09			10:50 - 12:10
GS05 GENERAL SESSION: ECOSYSTEM, ECOLOGY, ENERGY, WEATHER AND CLIMATE ANALYSIS FOR AGRICULTURE AND AGRICULTURE SUSTAINABILITY **Chair: Yuanyuan Chen**			**Location: Room-203** **Sixth Teaching Building**

Time	ID	Title & Authors
10:50-11:10	96	Analysis on Ecological Suitability Planting Area of Chinese Medicinal Yam- Biao Hu
11:10-11:30	185	Mapping for terrestrial ecosystem services: a review - Yuanyuan Chen
11:30-11:50	186	Analysis of Wetland change in Wuhan under urbanization process - Yuanyuan Chen
11:50-12:10	12	Crop yields and production responses to climate disasters in China - Yiting Liu

Thursday, August 09		10:50 - 12:10
GS14 GENERAL SESSION: MULTI-DISCIPLINARY SESSION **Chair: Junmei Tang**		**Location: Room-211** **Sixth Teaching Building**

Time	ID	Title & Authors
10:50-11:10	66	Research of Land Use Ground temperature Effect In the main districts of Chongqing - Zhang Xueru
11:10-11:30	303	The Application of AIA in Typhoon Rescue Route Planning - Lifeng Liu
11:30-11:50	167	Research and Construction on Multi-level cultivated land quality evaluation system -- Taking the Plain along the middle and lower reaches of the Yangtze River as an example - Qiuying Tong
11:50-12:10	13	Evaluation Of Downward Solar Radiation Products In Agricultural Regions - Lirong Ding

Thursday, August 09		10:50 - 12:10
GS12 GENERAL SESSION: DATA INTEGRATION, DATA FUSION, INTEROPERABILITY, COMPUTING AND WEB APPLICATION **Chair: Yonglin Shen**		**Location: Room-311** **Sixth Teaching Building**

Time	ID	Title & Authors
10:50-11:10	188	Rapid Parametric Modeling Based on CGA Rule for Agricultural Building Groups - Shao-Yang Hou
11:10-11:30	26	A Spark-based parallel framework for geospatial raster data processing - Fan Gao
11:30-11:50	39	Design and implementation of agricultural meteorological service platform of Zhejiang Province based on WebGIS - Jingjing Xiao
11:50-12:10	52	Parameter sensitivity and uncertainty analysis of SWAT model with Sobol method - Mingliang Liu
Lunch		

Thursday, August 09			14:00 - 15:40
GS14 GENERAL SESSION: Multi-disciplinary session **Chair: Jie Lin**			**Location: Room-211** **Shaw Science Building**
Time	ID	Title & Authors	
14:00-14:20	131	Monitoring Agricultural Drought based on Solar-induced fluorescence Products - Jingyi Wen	
14:20-14:40	15	Contributions of climate change to the boundary shifts in the farming-pastoral ecotone in northern China since 1970 - Wenjiao Shi	
14:40-15:00	247	Analyzing the Relationship between Aerosol Optical Depth and GDP in Mainland China by Integrating MODIS and Nighttime Light Data - Ziwei Li	
15:00-15:20	222	A Modified Cyanobacteria Prediction Model Based on Cellular Automata Using N and P Concentration Inversion Data : Take Qilu Lake as Example - Ruonan Chen	
15:20-15:40			

Thursday, August 09			14:00 - 15:40
GS 22 Special Session: Sentinel of Wheat – STFC Newton Fund Project Progress **Chair: Jianxi Huang & Changan Liu**			**Location: Room-212** **Shaw Science Building**
Time	ID	Title & Authors	
14:00-14:20	204	Early-Season Crop type Mapping using Sentinel-2 Data - Pengyu Hao	
14:20-14:40	109	Estimating winter wheat yield by assimilating leaf area index from fusion of Landsat-8 and MODIS data in to the CERES-Wheat Model - He Li	
14:40-15:00	232	Assessment of C-band compact polarimetric, pseudo-quad-pol and full-pol SAR data for cropland classification - Changan Liu	
15:00-15:20	82	Parameters calibration and uncertainty assessment of WOFOST model with MCMC method - Jianxi Huang	
15:20-15:40	22	Homonizing Multi-source Remote Sensing Images Using Kalman Filter for Monitoring the Summer Corn Growth - Mingzheng Zhang	

Thursday, August 09		14:00 - 15:40
GS13 GENERAL SESSION: CROPLAND SUITABILITY ANALYSIS AND CROPLAND MONITORING **Chair: Yingbin He**		**Location: Room-203** **Sixth Teaching Building**

Time	ID	Title & Authors
14:00-14:20	16	Spatially explicit assessment of spring-cultivated potato growth suitability in China based on a process-based methodology - Yingbin He
14:20-14:40	241	A Deep Learning Pipeline for High-Throughput Phenotyping from Lidar Data - Shichao Jin
14:40-15:00	223	Research on Economic Irrigation System of Peanut Crops in Shanxi Province - Sida Wang
15:00-15:20	276	Some thoughts on fine-grained pagination schema for WFS 3.0 - Xinlin Qian
15:20-15:40	224	Research On Yield of Drip Irrigation Maize under Different Irrigation Quota of Coastal Saline - alkali Soi - Ning Wang

Thursday, August 09			14:00 - 15:40
GS14 GENERAL SESSION: MULTI-DISCIPLINARY SESSION Chair: Aihong Gai			Location: Room-211 Sixth Teaching Building
Time	ID	Title & Authors	
14:00-14:20	89	Trend visual analysis of remote sensing growth monitoring based on CiteSpace - Lijuan Wang	
14:20-14:40	114	Uses of the Geographical Detector Method to Analyse Spatiotemporal Changes and Impact Factors Related to Chinese Food Security - Yan-jun Ye	
14:40-15:00	278	A Study on Geoscience Model Sharing Based on the OGC Web Service in a Distributed Environment – Xicheng Tan	
15:00-15:20	178	A Multi-objective optimization sampling method based on Pareto-optimality for mapping with ancillary data - Xiaolan Li	
15:20-15:40	86	Retrieval of leaf chlorophyll content of paddy rice with extracted foliar hyperspectral imagery - Bin Wang	

Poster Sessions Schedule

Monday, August 06	14:00 - 16:00
GS 24 Poster Session **Chair: Gang Li**	**Location: 2nd floor lobby (Shaw Science Building)**

ID	Title & Authors
2	Quantitative analysis of the impacts of natural facts and human activities on runoff and sediment change in Tingjiang River - Z Zy
17	Remote sensing inversion of canopy leaf area index using hyperspectral data from different varieties of potatoes - Shanjun Luo
28	Hyperspectral recognition of a variety of crops based on Continuum removal - Zhuozhuo Wang
31	Remote-sensing based Agricultural Garden Construction Progress Monitoring - Jiong You
33	Regional-scale monitoring of rice flood disaster based on multi-temporal remote sensing images - Lin Yuan
34	Experiment of meteorological disaster monitoring on unmanned aerial vehicle - Ruisheng Ma
35	Monitoring of Cnaphalocrocis medinalis Damage of Rice Based on Multi-Temporal GF-1 Images - Jing Wang
38	Experimental study on three-dimensional scene construction of reservoir dam of typical agricultural irrigation reservoir in Karst Mountain Area - Sha Gao
40	The System Supervising and Warning the Agricultural Meteorological Disaster of Zhejiang Based on WebGIS - Fenfen Guo
	Rapid Estimation of Flood Crop Loss by Using DVDI - Sarah Di
122	Quantification of physiological conditions of paddy rice using maximum quantum yield and Photochemical Reflectance Index - Doheyok Oh
183	Study on the method of multi-objective parameters optimization for land surface models based on data assimilation - He Zhu
282	Coupling cropland change with vegetation greening or browning in China - Yuzhen Zhang
152	Agriculture Drought and Food Security Monitoring over the Horn of Africa (HOA) from Space - Carolyn Qu

Tuesday, August 07	14:00 - 16:00
GS 24 Poster Session **Chair: Xiaoping Wang**	**Location: 2nd floor lobby (Shaw Science Building)**

ID	Title & Authors
84	Evaluation of tea frost risk in Zhejiang Province integrated multiple source data based on geographical information system - Shirui Li
87	Research progress on the agriculture drought disaster risk and its research theoretical framework - Lanying Han
88	Research on Empirical Model and Gap rate Model for Estimating Rice Leaf Area Index Based on UAV HD Digital Images - Zhixian Luo
106	Rapidly Evaluation the Effectiveness of Different Wheat Site-specific Nitrogen Fertilization Approaches Based on Spectral index - Bei Cui
162	Monitoring and modelling changes in cropland under rapid urbanization: A case study of Hangzhou from 1990 to 2015 - Ke He
135	A Rapidly Diagnosis and Application System of Wheat Scab Based on Smartphone - Dongyan Zhang
142	A snow-free MODIS-based index to inverse non-photosynthetic vegetation coverage in the Asian steppe area - Wenqing Wang
168	Study on extraction methods of rape area based on GF-1 satellite image - Jie Shan
171	Preliminary Approach on Adaptability of ORYZA2000 Model for Rice in the Middle Region of Jiangsu Province - Bihui Lu
195	Spatial variability of crops in sampling units and its effect on sampling extrapolation efficiency - Geji Zhong
346	Land use and Land cover classification for Ganges Basin 2005 on Google Earth Engine – Zhiqi Yu
112	Information Extraction of Mango Orchard Using GF-2 Satellite Data - Huichun Ye
3	XQ-index: A Distributed Spatial Index for Cloud Storage Platforms - Yulong Hu

Wednesday, August 08	14:00 - 16:00
GS 24 Poster Session **Chair: Jianxi Huang**	**Location: 2nd floor lobby (Shaw Science Building)**

ID	Title & Authors
202	Evenness detection method for sample distribution of agricultural heavy metal in the fragmented regions - Shiwei Dong
203	Ecological footprint calculation of Beijing based on net primary productivity and its comparison with traditional models - Hui Guo
207	Evapotranspiration estimation and prediction for oasis transect in middle reach of Heihe river basin based on METRIC and CA_Markov model - Weicheng Ni
212	Evaluation of a two-source energy balance model for estimating regional land surface heat fluxes during the HiWATER-MUSOEXE - Yongmin Yang
218	Research of Soil Moisture Content Forecast Model Based on Reference Evapotranspiration of Neighboring Periods - Xinrui Fan
225	Study on Typical Vegetables of Irrigation Low Limit for Economical Irrigation under Mulch in Greenhouse - Hao Wang
274	Preliminary Evaluation of the Global Food Security-support Analysis Data (GFSAD) at 30 m for China Cropland Extent Product in 2015 - Jianwei Ma
295	Characterizing the C-band backscattering of winter-wheat canopy with a microwave radiative transfer model - Wenjia Yan
297	Impact of Climate Change on Soil Salinity: A remote sensing based investigation in Coastal Bangladesh - Md. Shahinoor Rahman
310	Fingerprint Database Optimization Method for Indoor Localization Based on Neighbor Mean Filter - Aiguo Zhang
318	Rapid Flood Progress Monitoring in Cropland with NASA SMAP - Md. Shahinoor Rahman
134	Estimating Total Leaf Nitrogen Concentration in Winter Wheat Using hyperspectral data and Vertical Nitrogen Distribution – Yu Zhao
133	Evaluation of spectral disease index PMI to detect early wheat powdery mildew using hyperspectral imagery data – Dongyan Zhang
238	Cultivation Management Evaluation of Weak Gluten Wheat Based on Low-altitude UAV Remote Sensing - Shizhou Du

Thursday, August 08	14:00 - 15:40
GS 24 Poster Session Chair: Cheng Su	Location: 2nd floor lobby (Shaw Science Building)

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100	Study on Effects of Cotton-Rice Rotation on Increasing Rice Yield by Remote Sensing - Ling Sun
101	Using Stochastic Programming and Remote Sensing to Implement Ecological Restoration of Degraded Mud Flat Ecosystem - Ling Sun
200	Winter Wheat Acreage Extraction Based on Radarsat-2 Data and Polarization Characteristics - Lin Qiu
43	Using reanalysis and MODIS data for near land surface water vapor estimation - Yi Shanzhen
48	Spatio-temporal Distribution of ESA CCI soil moisture product in Gansu Province and Precision Evaluation - Die Hu
59	Framework Design of Storage and Visualization System for Massive Unmanned Aerial Vehicle (UAV) Remote Sensing Data - Dandan Guo
79	Estimation of high resolution leaf area index from data fusion model - Tao Yu
81	The spatial and temporal characteristics of the agricultural drought risk and its response to climate change in Gansu Province - Lanying Han
179	Research progress of crop classification based on full Polarimetric SAR data - Zheng Sun
189	Design of the spatial sampling scheme for vegetable crops acreage estimation using satellite-based and Unmanned Aerial Vehicle remotely sensed data - Di Wang
115	Remote estimation of nitrogen vertical distribution by consideration of the plant geometry effects in maize - Huichun Ye
77	Estimation of NEP in Downtown Xuzhou in 2016 Based on CASA Model - Ting Huang
321	Cotton yield estimation model based on fusion image from MODIS and Landsat data - Linghua Meng

Conference Presenting Author and Breakout Session Chair Index

Presenting authors' (first author) names are followed by the paper number

Author Index is indexed based on authors' last name

Section number = Day. time slot. Location. Session number

Day: M = Monday; T = Tuesday; W = Wednesday; TR = Thursday

Time slot: 0 = keynote or Plenary, 1 = 10:50-12:10; 2 = 14:00-15:20; 3 = 15:40-17:00

Location: S = Shaw Science Building; AB = Academic Building 6 (Sixth Teaching Building)

Session number: see Table of Sessions (on page - 2 -)

Example:

T.0.S.P = this is a plenary session which scheduled on Tuesday Morning in Shaw Science Building

TR.1.AB.05 = this is a session topic 5 which scheduled at 10:50-12:10 on Thursday in Academic Building 6

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Poster Session Chairs

Gang Li (Monday)
Xiaoping Wang (Tuesday)
Jianxi Huang (Wednesday)
Cheng Su (Thursday)

Venue

Zhejiang University Yuquan Campus (浙江大学玉泉校区**)**

- All keynote, plenary, poster and part of breakout sessions will be held at Shaw Science Building (邵逸夫科学馆).

- Other breakout sessions will be held at Sixth Teaching Building (Academic Building 6) (教六).

Walking distance is less than 100m from Shaw Science Building and Sixth Teaching Building; in addition, shuttle will be provided between these two buildings during conference.

Morning shuttle will be provided between Zhejiang University Zheda Road Gate (the gate is 200m from Union Lingfeng Hotel) and conference venue.

Departure schedule:

August 6	7:30	7:45	8:00	8:15
Agust 7-9			8:00	8:15

Map of Zhejiang UniversityYuquan Campus

Parking

Parking tickets are available at 5RMB/day. If you plan to drive to campus, please reserve your ticket by August 2nd at: http://agro-geoinformatics.org/parking-ticket/ Please be advised that tickets need to be picked up at registration desk. All tickets need to be reserved in advance and no onsite purchase will be available.

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