

Agro-Geoinformatics 2021 Committees

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The Ninth International Conference on Agro-Geoinformatics

***PLEASE NOTE THAT THIS PROGRAM IS LISTED IN U.S. EASTERN TIME (EDT, UTC -4).**

Program at a Glance

Day 1: July 26, 2021 (Monday)			
08:00-08:10	Opening Ceremony		
08:10-08:25	Announcement of the next Agro-Geoinformatics conference		
08:25-11:30	Keynote Speech		
Day 2: July 27, 2021 (Tuesday)			
08:00-09:30	GS 05	GS 03	GS 01
09:30-09:45	Break		
09:45-11:15	GS 11*	GS 02	GS 01
Day 3: July 28, 2021 (Wednesday)			
08:00-09:30	GS 06	GS 08	GS 10
09:30-09:45	Break		
09:45-11:15	GS 14*	GS 09	GS 07
Day 4: July 29, 2021 (Thursday)			
08:00-09:30	GS 12	GS 13*	GS 04
09:30-09:45	Break		
09:45-11:15	GS 12	GS 13*	GS 06

* Special sessions

Table of Sessions

GS01	Acquisition, Processing, and Information Extraction of Remotely Sensed Data
GS02	Agriculture Decision Support Systems
GS03	Ecosystem, Ecology, energy, Weather and climate analysis for agriculture and agriculture sustainability
GS04	Cropland suitability analysis and cropland monitoring
GS05	Crop yield modeling and estimation
GS06	Cropland mapping and land use / landcover change monitoring
GS07	Cropland evapotranspiration, soil moisture, and soil monitoring
GS08	Agriculture diseases disaster and damage monitoring
GS09	Cropland and Crop Condition Monitoring
GS10	Data integration, Data Fusion, Interoperability, computing and web application
GS11	Special Session: Remote Sensing of Coastal Zone
GS12	Multi-disciplinary session
GS13	Special Session: Student competition
GS14	Special Session: Young Scientist Competition

Agro-Geoinformatics 2021 Conference Program**July 26-29, 2021*****PLEASE NOTE THAT THIS PROGRAM IS LISTED IN U.S. EASTERN TIME (EDT, UTC -4).**

Zoom Room Open at 7:30 AM

Monday, July 26		08:25 – 11:30
Opening Ceremony		Location: Zoom – Main Room
Time	Events	
08:00-08:10	Opening ceremony & welcome addresses Prof. Liping Di , George Mason University, USA	
08:10-08:25	Announcement of the next Agro-Geoinformatics conference Prof. Saeid Homayouni , National Scientific Research Institute (INRS), Canada	
Keynote Speech Chairs: Zhengwei Yang, Ruixin Yang, Jiali Shang		Location: Zoom – Main Room
Time	Events	
08:25-09:00	Toward near-real-time crop monitoring using satellite remote sensing Dr. Feng Gao , United States Department of Agriculture, USA	
09:00-09:35	Digital Twinning in Crop Production Dr. Berk Ustundag , Istanbul Technical University, Turkey	
09:35-09:50	Coffee Break	
09:50-10:25	Current challenges and future opportunities of precision agriculture Dr. Jiali Shang , Agriculture and Agri-Food Canada	
10:25-11:00	Importance of interoperability for the agriculture sector Piotr Zaborowski , Open Geospatial Consortium	
11:00-11:30	A Smart Agricultural Service Platform for Crop Planting, Monitoring and Management - PIE-Engine Landscape Linlin Guo , PIESAT	

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Breakout Sessions Schedule, July 27

Tuesday, July 27		08:00 – 09:30
GS 05: Crop yield modeling and estimation Chairs: Zhe Guo, Ziheng Sun		Location: Zoom Session-room #1
Time	ID	Title & Authors
08:00-08:15	119	Assimilating remote sensing data in STICS model to estimate corn biomass Chunhua Liao, Jinfei Wang, Bo Shan and Qinghua Xie
08:15-08:30	157	Machine learning model accurately predict maize grain yields in conservation agriculture systems in Southern Africa. Francis Muthoni, Christian Thierfelder, Bester Mudereri, Julius Manda, Mateete Bekunda and Irmgard Hoeschle-Zeledon
08:30-08:45	15	Simulation of Water Saving and Methane Mitigation Potential of Paddy Fields under Alternate Wetting and Drying Irrigation Regime in China Yidan Fan, Zhan Tian, Kai Wang and Dongli Fan
08:45-09:00	160	Rice extraction in the Central Valley using multi-temporal Landsat images Liang Wang
09:00-09:15	169	Estimate crop type distribution in South Africa using Google Earth Engine cloud computing Zhe Guo and Andrew Sheng
09:15-09:30		
Break		

Tuesday, July 27		08:00 – 09:30
GS 03: Ecosystem, Ecology, energy, Weather and climate analysis for agriculture and agriculture sustainability Chairs: Liang Liang, Li Lin		Location: Zoom Session-room #2
Time	ID	Title & Authors
08:00-08:15	59	The evaluation on the spatial distribution characteristics of the importance of the ecosystem service in Xining city Aihong Gai, Xueliang Wang, Xiuqing Chen, Lijun Yan, Congcong Lu and Xiaoping Wang
08:15-08:30	77	Air temperature estimates using deep learning regression Xinlan Ye, Xin Mei, Shaobo Zhong, Mingxing Wang and Dunjiang Song
08:30-08:45	78	An review and prospect of annual report on remote sensing monitoring of global ecological environment Rui Kang, Zhen Tian and Liang Liang
08:45-09:00	86	Remote Sensing Estimation of Net Ecosystem Productivity in China by Improved CASA Model

		Liang Liang, Siyi Qiu, Di Geng and Yanyan Shi
09:00-09:15	112	Spatial pattern of greening and browning and its response to climate in Xinjiang Wanqiang Han, Jianghua Zheng, Xurui Mao, Xifeng Ju and Liang Liu
09:15-09:30	134	Prediction of river water quality considering spatiotemporal correlation and meteorological factors Yi-min Lu, Hong Zhang and Wei Shao
Break		

Tuesday, July 27		08:00 – 09:30
GS 01: Acquisition, Processing, and Information Extraction of Remotely Sensed Data Chairs: Feng Gao, Eugene Yu		Location: Zoom Session-room #3
Time	ID	Title & Authors
08:00-08:15	19	Accurate Recognition of Wine Grape in Yinchuan City Based on Multi-source Satellite Data Wenjie Li, Lingbo Yang, Yanhong Huang, Yan Chen and Jingfeng Huang
08:15-08:30	46	Object-oriented greenhouse cantaloupe identification by remote sensing technology Bei Cui, Wenjiang Huang, Huichun Ye, Zhichao Li and Quanxi Chen
08:30-08:45	101	Extracting tobacco planting areas using LSTM from time series Sentinel-1 SAR data Jue Zhou, Mengmeng Li and Xiaoqin Wang
08:45-09:00	110	Extraction of spatial distribution information and migration direction of diphtheria aconitum based on UAV images Yuan Fan and Jianghua Zheng
09:00-09:15	117	Classification and Mapping of Paddy Rice using Multi-temporal Landsat Data with a Deep Semantic Segmentation Model Meiqi Du, Jingfeng Huang, Dengfeng Chai, Tao Lin and Pengliang Wei
09:15-09:30	128	Study on remote sensing feature selection of green manure crop Astragalus sinicus based on multi-temporal Sentinel-2 imagery Jingjing Wang, Lin Qiu, Zhiming Wang, Xiaojun Huang, Jie Shan and Mu Li
Break		

Tuesday, July 27		09:45 – 11:30
GS 11*: Remote Sensing of Coastal Zone		Location: Zoom
Chairs: Xiaoyu Zhang, Chen Zhang		Session-room #4
Time	ID	Title & Authors
09:45-10:00	103	A Momentary High Amplitude Seawater Temperature Rise in Yongxing Island- Cause Analysis Dingtian Yang
10:00-10:15	124	Reconstruction of Temporal and Spatial Distribution Characteristics of K _d (490) in the Yangtze River Estuary Based on Dynamic Modal Decomposition Method Xiaoyu Zhang, Jiaxing Chen and Di Jiang
10:15-10:30	123	Comparison of the Spatiotemporal Variation of Chl-a in the East China Sea and Bohai Sea based on long time series satellite data Shuchang Ma, Xiaoyu Zhang, Changcheng Ding, Wencong Han and Yanfang Lu
10:30-10:45	130	Black and Odorous Water Monitoring by Using GF Series Remote Sensing Data Chuanfeng Wei, Qiyi Zheng, Yongheng Shang, Zhengwei Shen, Xiaoyu Zhang and Jianwei Yin
10:45-11:00	151	Significance on Background Radiation of Wide-Field-Of-View Staring Remote Sensing System on Geosynchronous Satellite Hui Ye and Faquan Li
11:00-11:15	170	Impact of the "Tianjin 8.12 Explosion" on Chlorophyll-a Concentration in the Bohai Sea Yong Du and Xiaoyu Zhang

Tuesday, July 27		09:45 – 11:30
GS 02: Agriculture Decision Support Systems		Location: Zoom
Chairs: Yuanzheng Shao, Yahui Di		Session-room #5
Time	ID	Title & Authors
09:45-10:00	55	A SDI Approach for Managing Earth Observation Videos Zilong Li, Lianlian He, Chenxiao Zhang, Liangcun Jiang and Boyi Shangguan
10:00-10:15	66	Intercomparison of Agricultural Drought Monitoring Products Ziheng Sun and Liping Di
10:15-10:30	132	PlantCube: Multi-source data fusion system for smart agriculture Yaojun Wang, Yanan Hao, Yongqiang Qian, Hainie Zha, Qi Liu, Jingyan Sui and Mingsheng Fan
10:30-10:45	133	DiseSniper: A potato disease identification system based on deep learning Yaojun Wang, Yanyan Zhao, Jingyan Sui, Yongqiang Qian, Yanan Hao, Qi Liu, Hainie Zha and Mingsheng Fan
10:45-11:00	172	A Smart Agricultural Service Platform for Crop Planting,

		Monitoring and Management - PIE-Engine Landscape Chenggang Wang, Yanghua Liu, Linlin Guo, Wenqian Guo, Fangfang Liao and Honghui Zhu
11:00-11:15	199	Research on WebGIS Application Based on Edge Computing Jian Huang, Zijun Liang, Xuedan Zhao, Jinling Zhao, Baheizhati Nuertayi and Jialei Wang
11:15-11:30	180	An Overview of Agriculture Cyberinformatics Tools to Support USDA NASS Decision Making Chen Zhang, Zhengwei Yang, Liping Di, Li Lin and Haoteng Zhao

Tuesday, July 27		09:45 – 11:30
GS 01: Acquisition, Processing, and Information Extraction of Remotely Sensed Data Chairs: Lei Hu, Zhiqi Yu		Location: Zoom Session- room #6
Time	ID	Title & Authors
09:45-10:00	68	Watershed segmentation algorithm based on Gradient reconstruction and iterative minimum calibration Gao Zhang, Jian Yang, Weijia Cao and Miao Liu
10:00-10:15	159	Field Boundary Identification using Convolutional Neural Network and GIS on High Resolution Satellite observations Suryakant Sawant, Jayantrao Mohite, Rishabh Agrawal, Ankur Pandit and Srinivasu Pappula
10:15-10:30	198	Application of multidimensional data visualization technology and WebGIS in lightweight visualization system design Zijun Liang, Baheizhati Nuertayi, Yuanyuan Xu, Fei Zhang, Jingwen Yang and Jialei Wang
10:30-10:45	161	Identification of Adult Resistance Varieties to Wheat Stripe Rust Based on Hyperspectral Data Jie Deng, Xuan Lv and Lujia Yang
10:45-11:00	171	Tree Height Estimation Using Field Measurement and Low- Cost Unmanned Aerial Vehicle (UAV) at Phnom Kulen National Park of Cambodia Ly Mot, Shu Hong, Kitsanai Charoenjit and Haoran Zhang
11:00-11:15	197	The Application on distributed geospatial data management based on Hadoop and the application in WebGIS Jian Huang, Jinling Zhao, Yixiao Guo, Xin Mao, Shana Wuren and Jialei Wang

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Breakout Sessions Schedule, July 28

Wednesday, July 28		08:00 – 09:30
GS 06: Cropland mapping and land use / landcover change monitoring Chairs: Pengyu Hao, Sreten Cvetojevic		Location: Zoom Session-room #1
Time	ID	Title & Authors
08:00-08:15	20	Cropland Identification using GF-6 Satellite WFV Imagery Yuechen Liu, Jiong You, Zhiyuan Pei and Fei Wang
08:15-08:30	25	Categorization and Change Analysis of Soybean in Brazil using Remote Sensing Jiong You, Zhiyuan Pei, Xue Han and Weijie Jiao
08:30-08:45	26	Wheat Powdery mildew (<i>Blumeria graminis</i> f. sp. <i>tritici</i>) Estimation with In-Situ Hyperspectral Data Based on Random Forest Jingjing Zhao, Hao Yan, Guoming Chu, Lei Hu, Linsheng Huang and Dongyan Zhang
08:45-09:00	41	Application for the confirmation and registration results of the right to rural land contractual management in the investigation of crop planting structure information Xiangsheng Yi, Zhiyuan Pei, Hu Zhao, Shuyu Zhang, Chunxi Wang and Haijun Wang
09:00-09:15	42	An automated approach to training sample selection for winter wheat mapping over Jiangsu, China with Google Earth Engine Gaoxiang Yang, Xue Zhang and Tao Cheng
09:15-09:30	47	Accuracy evaluation of high resolution global land cover products: a case study of nine urban agglomerations Qiu Siyi, Liang Liang, Shi Yan Yan and Yan Juan
Break		

Wednesday, July 28		08:00 – 09:30
GS 08: Agriculture diseases disaster and damage monitoring Chairs: Francis Muthoni, Zhe Guo		Location: Zoom Session-room #2
Time	ID	Title & Authors
08:00-08:15	43	Monitoring and estimation of late spring frost and its impact on winter wheat through multi-temporal GF-1 remotely sensed imagery Yan Guo, Laigang Wang, Jia He, Ting Liu, Yan Zhang and Xiuzhong Yang
08:15-08:30	63	Evaluating performance of prediction of vegetative drought using classic and recent sequence based models Shaobo Zhong, Zhanya Xu and Leiyu Cao

08:30-08:45	190	Remote Sensing Mapping of cage and floating-raft aquaculture in China's offshore waters using machine learning methods and Google earth engine Yunci Xu, Wenqi Wu and Lizhen Lu
08:45-09:00	109	Mapping "Cold Dew Wind" damaged area of late paddy rice in Jiangxi Province using Moderate Resolution Imaging Spectroradiometer data Yan Chen, Jingfeng Huang, Lingbo Yang and Li Liu
09:00-09:15	185	Disaster Information Dissemination During Emergency Event: An Experiment In OGC Disaster Resilience Pilot Li Lin, Liping Di, Eugene Yu, Chen Zhang, Pengyu Hao, Ziheng Sun, Haoteng Zhao and Zhiqi Yu
09:15-09:30	122	Developing Geospatial Web Services for Automatic Flood Mapping using Sentinel-1 Images Zhe Fang, Lianlian He, Lei Hu and Tianyu Tuo
Break		

Wednesday, July 28		08:00 – 09:30
GS 10: Data integration, Data Fusion, Interoperability, computing and web application Chairs: Ayda Aktas, Haoteng Zhao		Location: Zoom Session-room #3
Time	ID	Title & Authors
08:00-08:15	6	Study on Extraction Methods of Paddy Rice Area based on GF-6 Satellite Image Jie Shan, Lin Qiu, Miao Tian, Jingjing Wang, Zhiming Wang and Xiaojun Huang
08:15-08:30	11	Design and Implementation of Intelligent Agricultural Meteorological App Jingjing Xiao, Chong Cheng, Yuhui Zhang, Zhihai Wang, Fenfen Guo, Yiping Yao and Zhengquan Li
08:30-08:45	141	Remote Sensing Image Fusion with Geographically Weighted Principal Component Analysis Haokun Tang, Binbin Lu, Yubin Xu, Linyi Li and Paul Harris
08:45-09:00	155	Data Refinement Method of Sampling Sites for Remote Sensing Data Shiwei Dong, Yirong Wang, Yanan Wu and Yuchun Pan
09:00-09:15	39	Refined deep features for unsupervised change detection in high resolution remote sensing images Chenxiao Zhang, Lianlian He and Liangcun Jiang
09:15-09:30	18	Comparison of TVDI and soil moisture response based on various vegetation indices Weidan Wang, Li Sun, Zhiyuan Pei, Yuanyuan Chen and Mo Dong
Break		

Wednesday, July 28		09:45 – 11:30
GS 14*: Young Scientist Competition		Location: Zoom
Chairs: Jiali Shang, Ruixin Yang		Session-room #4
Time	ID	Title & Authors
09:45-10:00	154	Areas available for the potential expansion of soy in Brazil: a geospatial assessment using the SAFMaps database Arnaldo Walter, Joaquim E. A. Seabra, Jansle V. Rocha, Marjorie M. Guarengi, Nathália D. V. Vieira and João Luís Santos
10:00-10:15	194	Facilitating Natural Disaster Response and Impact Assessment using SDI services approach Lei Hu, Peng Yue, Zhexi Zhang, Zhe Fang, Liangcun Jiang, Chenxiao Zhang and Zheheng Liang
10:15-10:30	149	Nitrogen nutrition diagnosis of rice based on portable remote sensing sensor with weather data in Northeast China Junjun Lu, Heng Xiao, Yu Zhang, Yuxin Miao, Zhichao Chen, Wei Shi, Jingxin Li, Xiaoyi Hu and Krzysztof Kusnierek
10:30-10:45	98	Desert Locust and Drought Cropland Damage Assessment in Ethiopia Woubet Alemu and Christopher Neigh
10:45-11:00	138	Integration of Machine Learning and Domain based Phenology for Potato Crop Area Mapping Jayantrao Mohite, Suryakant Sawant, Ankur Pandit and Srinivasu Pappula
11:00-11:15	127	SIMULATION OF SENTINEL-2 DATA USING HYPERSPECTRAL DATA FOR BARE SURFACE SOIL MOISTURE ESTIMATION Jayantrao Mohite, Suryakant Sawant, Ankur Pandit and Srinivasu Pappula

Wednesday, July 28		09:45 – 11:30
GS 09: Cropland and Crop Condition Monitoring		Location: Zoom
Chairs: Liang Liang, Sreten Cvetojevic		Session-room #5
Time	ID	Title & Authors
09:45-10:00	38	Monitoring Barley Growth Condition with Multi-scale Remote Sensing Images Yingying Dong, Jihua Wang, Wenjiang Huang, Huichun Ye and Yining Zhu
10:00-10:15	90	Study on the Response of Winter Wheat Growth Correlation to Water and Nutrient Stress Baozhu Zhang and Yangren Wang
10:15-10:30	96	Study on the Correlation of Corn Growth in Response to Water and Nutrient Stress Qingqing Shi, Yangren Wang and Yan Li

10:30-10:45	111	Application of GEE in cotton monitoring of the 7th division of Xinjiang Production and Construction Corps Ju Xifeng, Guan Jingyun, Fan Hong, An Qinghui, Wu Rui and Zheng Jianghua
10:45-11:00	146	Land Cover Extraction of Remote Sensing Images with Parallel Convolutional Network Xiuhong Chang, Chunbin Li, Jing Wu, Lei Li, Quanhong Li and Benjamin Adu
11:00-11:15	131	The rapid Land Use and Land Cover change analysis using the Sentinel-2 images in Google Earth Engine: A Case Study of Xiong'an New Area from 2017 to 2020 Jiansong Luo, Rujin Yuan, Yujia Cao, Min Xie and Yikai Wang

Wednesday, July 28		09:45 – 11:30
GS 07: Cropland evapotranspiration, soil moisture, and soil monitoring Chairs: Zhengwei Yang, Chen Zhang		Location: Zoom Session-room #6
Time	ID	Title & Authors
09:45-10:00	163	Predictive Error Compensating Neural Networks for Improvement of Soil Moisture Estimation Accuracy Burak Berk Ustundag, Ayda Aktaş and Ajla Kulagic
10:00-10:15	113	Interannual variation and correlation analysis of farmland NDVI, soil moisture and atmospheric relative humidity in Xinjiang during 2009-2020 Xurui Mao, Jianghua Zheng, Xifeng Ju, Wanqiang Han, Liang Liu and Tao Zhong
10:15-10:30	118	Design of Sensor Network for Monitoring Regional Soil Moisture based on the Spatio-temporal Variability of TVDI Xueqin Wang, Xiang Zhang, Nengcheng Chen and Hongliang Ma
10:30-10:45	177	Impacts of Soil Moisture on Crop Health: A Remote Sensing Perspective Haoteng Zhao, Liping Di, Ziheng Sun, Pengyu Hao, Eugene Yu, Chen Zhang and Li Lin
10:45-11:00	153	Context-aware Root-zone Soil Moisture Monitoring with Wavelet Preprocessing in Remote Sensing Ayda Aktas and Burak Berk Üstündağ
11:00-11:15	64	Rapid Detection of Phosmet Residues in Paddy Water Based on Surface-Enhanced Raman Spectroscopy and Deep Learning Chao Xu, Xueyan Zhang, Hecai Yuan, Peipei Tang, Bingqing Guo and Shizhuang Weng

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Breakout Sessions Schedule, July 29

Thursday, July 29			08:00 – 09:30
GS 12: Multi-disciplinary session			Location: Zoom
Chairs: Eugene Yu, Lizhen Lu			Session-room #1
Time	ID	Title & Authors	
08:00-08:15	36	Simulating the spatial distribution of agricultural population based on rural contracted land registration and certification data Wei Wei, Lin Guo, Yin Zhang, Lina Zhang, Xue Xing and Zhiyuan Pei	
08:15-08:30	49	Uncertainty Analysis of The Impact of Earthquake on Prison Building Safety Chi-Jan Huang, Yu-Chen Chen, Ping-Wu Chang and Ting-Yi Chiang	
08:30-08:45	51	Study on the Security of Land Use Space in Campus Chi-Jan Huang, Wun Yu Chen and Ting Yi Chiang	
08:45-09:00	52	Research on Uncertainty Analysis of Texas Campus Shooting Chi-Jan Huang, Mei-Chen Hsia and Jin-Hui Xu	
09:00-09:15	62	A method for solving vehicle routing problems with pickup and delivery with time windows for ride-sharing services Zhipeng Cao, Liangcun Jiang, Mingdda Zhang, Boyi Shanguang, Peng Yue and Zheheng Liang	
09:15-09:30	72	Pig Face Recognition Based on an Improved R-CNN Deep Learning Algorithm Hong Fan and Hang Zhou	
Break			

Thursday, July 29			08:00 – 09:30
GS 13*: Student competition			Location: Zoom
Chairs: Ruixin Yang, Jiali Shang			Session-room #2
Time	ID	Title & Authors	
08:00-08:15	126	Interpreting the Trends of Extreme Precipitation in Florida through Pressure Change Chi Zhang, Songzi Wu, Tiantian Li, Ziwen Yu and Jiang Bian	
08:15-08:30	156	Association of leaf Chlorophyll fluorescence with genetic variation in bermudagrass along longitudinal and latitudinal gradients Jing-Xue Zhang, Yu Shen, Jin Qian and Xue-Bing Yan	
08:30-08:45	35	Study on the Sensitivity and Optimal Band Selection of Vegetation Chlorophyll Content Inversion by Spectral Index Yan Juan, Liang Liang, Geng Di, Qiu Siyi and Shi Yanyan	
08:45-09:00	93	Study on Exploring High Yield Produce Areas of Jasmine	

		Mei Huang, Guiying Pan and Yanlin Hou
09:00-09:15	87	A deep learning based point-surface data fusion method for generating 30 m spatio-temporally continuous soil moisture product Shuzhe Huang, Xiang Zhang and Nengcheng Chen
09:15-09:30	116	Retrieval of Sea Surface Salinity in the adjacent area of the Changjiang Estuary with machine learning Based on Multi-satellite Data Wencong Han, Xiaoyu Zhang, Shuchang Ma, Changcheng Ding and Yanfang Lu
Break		

Thursday, July 29		08:00 – 09:30
GS 04: Cropland suitability analysis and cropland monitoring Chairs: Yahui Di, Pengyu Hao		Location: Zoom Session-room #3
Time	ID	Title & Authors
08:00-08:15	186	Using machine learning and trapezoidal model to derive All-weather ET from Remote sensing Images and Meteorological Data Pengyu Hao, Liping Di, Eugene Yu, Liying Guo, Ziheng Sun, Haoteng Zhao, Chen Zhang and Li Lin
08:15-08:30	83	Is Conservation Agriculture Adoption a Blessing or a Curse for Famers' Agricultural Income? ----A PSM and ESR Analysis from Jiangnan Plain, China Xinyue Li and Xin Yang
08:30-08:45	105	Study on Site Selection Zoning of Dry Land Transformed into Paddy Field Project in Wuhan City Based on the Suitability Grading of Cultivated Land Reconstruction Qin Tu, Qiuying Tong, Bo Zhu and Jiasheng Liu
08:45-09:00	175	Is Conservation Agriculture Adoption a Blessing or a Curse for Famers' Agricultural Income? Xinyue Li and Xin Yang
09:00-09:15	176	Plastic-mulched landcover scene classification in high-resolution remote sensing images using ensemble convolutional neural networks Xingqi Peng, Lizhen Lu and Xingqi Peng
09:15-09:30	189	Large-scale plastic-mulched landcover Mapping using multi-temporal optical and SAR data based on machine learning classifiers and Google Earth Engine Lizhen Lu and Yuan Tao
Break		

Thursday, July 29		09:45 – 11:30
GS 12: Multi-disciplinary session		Location: Zoom
Chairs: Ziheng Sun, Haoteng Zhao		Session-room #4
Time	ID	Title & Authors
09:45-10:00	143	Contextualized Spatial–Temporal Graph Networks for Taxi Demand Prediction Zheren Yan, Chenxiao Zhang, Peng Yue, Liangcun Jiang, Boyi Shangguan and Fan Gao
10:00-10:15	152	K-Ranking RSSI Vectors Cosine Value Localization Method for Indoor Positioning Aiguo Zhang, Qunyong Wu, Litao Han and Yutong Huang
10:15-10:30	173	Study on Characteristics and Differences of Spatial Structure of key villages of rural tourism in Chongqing Jianbo Chen
10:30-10:45	178	Detecting Photovoltaic Electric Fields from Sentinel-2 Data Using Machine Learning Methods in Google Earth Engine: A case study of Northwest China Xinyu Huang, Weifu Qin and Lizhen Lu
10:45-11:00		
11:00-11:15		

Thursday, July 29		09:45 – 11:30
GS 13*: Student competition		Location: Zoom
Chairs: Ruixin Yang, Jiali Shang		Session-room #5
Time	ID	Title & Authors
09:45-10:00	82	Influences of Spectral Resolution and Preprocessing on the Estimation Accuracy of Soil Organic Matter Content Xiaoyu Zhang, Yanmin Yao and Xiangzhao Yan
10:00-10:15	17	Study on Spatiotemporal Variation of Soil Moisture in China in the Past 71 Years Mengqing Geng, Mengyuan Zang, Feng Zhang, Qiulan Wu and Yong Liang
10:15-10:30	104	Delineation of agricultural fields using Psi-Net from high-resolution remote sensing images Jiang Long, Mengmeng Li, Xiaoqin Wang, Mingxing Cha and Heng Huang
10:30-10:45	114	Estuary water quality classification through deep learning image segmentation, an example of Hangzhou Bay Changcheng Ding, Xiaoyu Zhang, Shuchang Ma, Wencong Han and Yanfang Lu
10:45-11:00	174	Using GEE and ArcGIS to explore the World Nature Heritage Site, especially the wildfire damage and recovery of Africa

		vegetation Chengling Tang and Lizhen Lu
11:00-11:15		

Thursday, July 29		09:45 – 11:30
GS 06: Cropland mapping and land use / landcover change monitoring		Location: Zoom Session-room #6
Chairs: Ayda Aktas, Zhiqi Yu		
Time	ID	Title & Authors
09:45-10:00	48	Research on optimization of crop planting area estimation from remote sensing data Xiangsheng Yi, Zhifeng Shi, Hu Zhao, Ye Fu, Shangjie Ma and Kuan Liu
10:00-10:15	84	Multi-objective spatial optimization model for land use allocation Qiuying Tong, Xizi Wu, Suohua Yang and Yiran Zhang
10:15-10:30	85	Research on Assets Accounting of State-owned Construction Land Based on Cooperative Game Yidong Hu, Qiuying Tong, Su Luo and Qin Tu
10:30-10:45	89	Sementing the Field of Rapeseed from 3D Laser Point Cloud Using Deep Learning Fangzheng Hu, Chengda Lin, Jing Han and Junwen Peng
10:45-11:00	91	Machine Learning-based Pre-season Crop Type Mapping: A Comparative Study Alexander Yao and Liping Di
11:00-11:15	102	The use of Google Earth Engine and Geographical Detectors to monitor farmland changes in Fujian province Shupeí Ding, Mengmeng Li, Xiaoqin Wang, Ruijiao Wu and Heng Huang

Breakout Session Chair List

Date	Time Slot	Chairs		
Day 2: July 27, 2021 (Tuesday)	08:00-09:30	Room #1 Zhe Guo Ziheng Sun	Room #2 Liang Liang Li Lin	Room #3 Feng Gao Eugene Yu
	09:45-11:15	Room #4 Xiaoyu Zhang Chen Zhang	Room #5 Yuanzheng Shao Yahui Di	Room #6 Lei Hu Zhiqi Yu
Day 3: July 28, 2021 (Wednesday)	08:00-09:30	Room #1 Pengyu Hao Sreten Cvetojevic	Room #2 Francis Muthoni Zhe Guo	Room #3 Ayda Aktas Haoteng Zhao
	09:45-11:15	Room #4 Jiali Shang Ruixin Yang	Room #5 Liang Liang Sreten Cvetojevic	Room #6 Zhengwei Yang Chen Zhang
Day 4: July 29, 2021 (Thursday)	08:00-09:30	Room #1 Eugene Yu Lizhen Lu	Room #2 Ruixin Yang Jiali Shang	Room #3 Yahui Di Pengyu Hao
	09:45-11:15	Room #4 Ziheng Sun Haoteng Zhao	Room #5 Ruixin Yang Jiali Shang	Room #6 Ayda Aktas Zhiqi Yu