



## The Second International Conference on Agro-Geoinformatics

### Program at a Glance (Draft)

Day 1: August 12, 2013 (Monday)				
07:00-09:00	<b>Badge Pickup and On-site Registration</b> Location: Johnson Center Dewberry Hall George Mason University 4400 University Drive, Fairfax, VA 22030			
09:00-12:20	<b>Opening ceremony &amp; keynote speeches</b>			
12:20-14:00	<b>Lunch</b>			
14:00-15:40	GS01.1 [Room A]	GS01.3 [Room B]	GS02.1 [Room C]	GS02.3 [Room D]
15:40-16:30	<b>Coffee Break</b>			
16:30-17:45	GS01.2 [Room A]	GS01.4 [Room B]	GS02.2 [Room C]	
Day 2: August 13, 2013 (Tuesday)				
09:30-12:20	Plenary Session			
12:20-14:00	<b>Lunch</b>			
14:00-15:40	GS01.5 [Room A]	GS01.7 [Room B]	GS03.1 [Room C]	GS03.3 [Room D]
15:40-16:30	<b>Coffee Break</b>			
16:30-17:45	GS01.6 [Room A]	GS01.8 [Room B]	GS03.2 [Room C]	GS03.4 [Room D]
Day 3: August 14, 2013 (Wednesday)				
09:30-12:20	Plenary Session			
12:20-14:00	<b>Lunch</b>			
14:00-15:40	GS04.1 [Room A]	GS04.3 [Room B]	GS05.2 [Room C]	GS07.1 [Room D]
15:40-16:30	<b>Coffee Break</b>			
16:30-17:45	GS04.2 [Room A]	GS05.1 [Room B]	GS06.1 [Room C]	GS08.1 [Room D]
Day 4: August 15, 2013 (Thursday)				
09:30-12:20	Plenary Session			
12:20-14:00	<b>Lunch</b>			
14:00-15:40	GS09.1 [Room A]	GS10.1 [Room B]	GS11.2 [Room C]	
15:40-16:30	<b>Coffee Break</b>			
16:30-17:45	GS09.2 [Room A]	GS11.1 [Room B]	GS11.3 [Room C]	
Day 5: August 16, 2013 (Friday)				
08:30-12:30	Field Trip (Washington D.C)			

## Agro-Geoinformatics2013 Program Draft August 12-16, 2013

<b>Monday, August 12</b>		<b>09:00 – 12:10</b>
<b>Opening ceremony &amp; Keynote speeches</b> Chair: Liping Di		<b>Location: JC Dewberry Hall</b>
Time	Events	
09:00-09:20	Opening Ceremony	
09:20-09:55	<b>Dr. Ann Bartuska (USDA)</b> Title: TBD	
09:55-10:30	<b>Dr. Bradley Doorn (NASA)</b> Title: NASA Activities Addressing Agriculture Drought and Food Security	
Coffee break		
11:00-11:35	<b>Dr. Thomas J. Jackson (USDA)</b> Title: The Soil Moisture Active Passive (SMAP) Satellite: Status and Outlook	
11:35-12:10	<b>Dr. Ni-Bin Chang (National Science Foundation)</b> Title: Remote Sensing and Sensor Networks in Support of Eutrophication Monitoring in Aquatic Environment for Agricultural Run-off Impact Assessment	

<b>Monday, August 12</b>		<b>14:00 - 15:40</b>
<b>GS01.1</b> <b>Acquisition, processing, and information extraction of Remotely Sensed Data</b> Chair: Peng Yue		<b>Location: JC 325 Meeting Room A</b>
Time	ID	Title & Authors
14:00-14:25	19	<b>Xiaoxiang Chen (Sun Yat-sen University)</b> Research on the Correlation of Bird Changes with the net Primary Productivity in the Pearl River Estuary Wetlands: a case of Mai Po Inner Deep Bay Ramsar Site <i>Xiaoxiang Chen, Lili Zou and Lang Xu</i>
14:25-14:50	20	<b>Clement Adjorlolo (University of KwaZulu-Natal)</b> Estimating canopy nitrogen concentration across C3 and C4 grasslands using WorldView-2 multispectral data and the random forest algorithm <i>Clement Adjorlolo, Onesimo Mutanga, Moses Cho and Zeria Phiri</i>
14:50-15:15	169	<b>Ramesh Sivanpillai (University of Wyoming)</b> Utility of Landsat data for delineating management zones in small crop fields in Wyoming, USA <i>Ramesh Sivanpillai</i>
15:15-15:40	37	<b>Peng Yue (Wuhan University)</b> Using Google Fusion Tables For Cloud-Based Sensor Observation Services <i>Peng Yue</i>
Coffee Break		

<b>Monday, August 12</b>		<b>16:30 - 17:45</b>
<b>GS01.2</b> <b>Acquisition, processing, and information extraction of Remotely Sensed Data</b>		<b>Location: JC 325 Meeting Room A</b>

Chair: Shinichi Sobue		
Time	ID	Title & Authors
16:30-16:55	38	<b>Peng Yue (Wuhan University)</b> GeoJModelBuilder: A Java Implementation of Model-Driven Approach for Geoprocessing Workflows <i>Mingda Zhang and Peng Yue</i>
16:10-16:35	40	<b>Kay Smarsly (Berlin Institute of Technology)</b> Agricultural ecosystem monitoring based on autonomous sensor systems <i>Kay Smarsly</i>
16:55-17:20	53	<b>Yanmin Yao (Key Laboratory of Agri-informatics, Ministry of Agriculture)</b> Studies on the Inversion of Soil Organic Matter Content Based on Hyper-spectrum <i>Shikai Yu, Yanmin Yao, Deying Wang and Haiqing Si</i>
17:20-17:45	54	<b>Kei Oyoshi (Japan Aerospace Exploration Agency)</b> Development of complicated rice crop calendar in Southeast Asia with time-series MODIS data <i>Kei Oyoshi, Wataru Takeuchi and Shinichi Sobue</i>

Monday, August 12		14:00 - 15:40
<b>GS01.3</b> <b>Acquisition, processing, and information extraction of Remotely Sensed Data</b> Chair: Zhong Liu		<b>Location: JC 326</b> <b>Meeting Room B</b>
Time	ID	Title & Authors
14:00-14:25	84	<b>Sinasi Kaya (Istanbul Technical University)</b> An Automated Image Rectification Approach using Scale Invariant Feature Transform Algorithm <i>Ugur Alganci, Ibrahim Papila, Berk Ustundag, Elif Sertel and Sinasi Kaya</i>
14:25-14:50	94	<b>Obed Moncada Rojas (Universidad Nacional de Colombia)</b> En-masse removal identification on a regional scale through the use of time series of the MODIS-NDVI sensor. <i>Obed Moncada Rojas and Veronica Botero</i>
14:50-15:15	108	<b>Lin Li (Wuhan University)</b> User-oriented Image Quality Assessment of ZY-3 Product In Agriculture Area <i>Lin Li, Heng Luo, Xinming Tang, Zhen Li and Haihong Zhu</i>
15:15-15:40	89	<b>Zhong Liu (George Mason University &amp; NASA GES DISC)</b> Developing New Features to Enhance NASA GES DISC Global Agriculture Information System <i>Zhong Liu, William Teng, Steven Kempler and Dana Ostrenga</i>
Coffee Break		

Monday, August 12		16:30 - 17:45
<b>GS01.4</b> <b>Acquisition, processing, and information extraction of Remotely Sensed Data</b> Chair: Serdar Bagis		<b>Location: JC 326</b> <b>Meeting Room B</b>
Time	ID	Title & Authors
16:30-16:55	115	<b>Siam Lawawirojwong (Michigan State University)</b>

		Supervised Self-Organizing Map with Classification Uncertainty <i>Siam Lawawirojwong, Jiaguo Qi and Tanita Suepa</i>
16:10-16:35	117	<b>Selver Senturk (Istanbul Technical University)</b> Unsupervised identification of vineyard parcels using SPOT5 images by utilizing spectral and textural features <i>Selver Senturk, Kadim Tasdemir, Sinasi Kaya and Elif Sertel</i>
16:55-17:20	161	<b>Ziheng Sun (Wuhan University)</b> The use of geospatial workflow to support automatic detection of complex geospatial features from high resolution images <i>Ziheng Sun, Liping Di, Aijun Chen, Peng Yue and Jianya Gong</i>
17:20-17:45	129	<b>Serdar Bagis (Istanbul Technical University)</b> A Spatiotemporal Agricultural field NDVI data generation model <i>Serdar Bagis and B. Berk Ustundag</i>

<b>Monday, August 12</b>		<b>14:00 - 15:40</b>
<b>GS02.1 Agricultural Decision Support Systems Chair: Yanmin Yao</b>		<b>Location: JC 327 Meeting Room C</b>
Time	ID	Title & Authors
14:00-14:25	23	<b>Xunfei Deng (Zhejiang Academy of Agricultural Sciences)</b> Spatial distribution of soil organic matter in tillage layers in a southern China basin using classifications and spatial interpolation algorithms <i>Xunfei Deng, Xiaonan Lv, Minghua Zhang and Suquan Li</i>
14:25-14:50	35	<b>Min Min (Huazhong Agricultural University)</b> Analyzing Spatial Evolution of Population Distribution in Wuhan City Circle <i>Min Min and Tiantian Xu</i>
14:50-15:15	49	<b>Yuxin Miao (China Agricultural University)</b> Evaluating Different Precision Rice Management Strategies in Northeast China <i>Hongye Wang, Yuxin Miao, Guangming Zhao, Yinkun Yao and Rajiv Khosla</i>
15:15-15:40	52	<b>Yanmin Yao (Key Laboratory of Agri-informatics, Ministry of Agriculture)</b> Soil Organic Matter Spatial Distribution Change over the Past 20 Years and Its Causes in Northeast China <i>Yanmin Yao, Huajun Tang, Pengqin Tang, Shikai Yu, Deying Wang and Haiqing Si</i>
Coffee Break		

<b>Monday, August 12</b>		<b>16:30 - 17:45</b>
<b>GS02.2 Agricultural Decision Support Systems Chair: Rick Mueller</b>		<b>Location: JC 327 Meeting Room C</b>
Time	ID	Title & Authors
16:30-16:55	75	<b>Tianchen Qiu (Shanghai JiaoTong University)</b> Food Safety Warning Research Based on Internet Public Opinion Monitoring and Tracing <i>Hui Li, Hang Xiao, Tianchen Qiu and Pei Zhou</i>
16:10-16:35	126	<b>Hakan Erden (Ministry of Food, Agriculture and Livestock)</b> Large Scale Consolidation of Agricultural Monitoring and Information Services in Turkey

		<i>Hakan Erden, Gürsel Küsek, Berk Ustundag and Selver Senturk</i>
16:55-17:20	80	<b>Yuksel Cakir (Istanbul Technical University)</b> Detection of Oranges in Outdoor Conditions <i>Yuksel Cakir, Murvet Kirci, Ece Olcay Gunes and B.Berk Ustundag</i>
17:20-17:45	92	<b>Rick Mueller (USDA National Agricultural Statistics Service)</b> VegScape: A NASS Web Mapping Service Based U.S. Crop Condition Monitoring System <i>Rick Mueller and Zhengwei Yang</i>

<b>Monday, August 12</b>		<b>14:00 - 15:40</b>
<b>GS02.3 Agricultural Decision Support Systems Chair: Stephen McClure</b>		<b>Location: JC 328 Meeting Room D</b>
Time	ID	Title & Authors
14:00-14:25	106	<b>Xiaonan Lu (Zhejiang Academy of Agricultural Sciences)</b> A Case of GIS Application in Agricultural Project Management <i>Zhouqiao Ren and Xiaonan Lu</i>
14:25-14:50	121	<b>Nicolas Tremblay (Agriculture and AgriFood Canada)</b> Estimating Nitrogen Sufficiency Index Using A Natural Local Reference Approach <i>Yacine M. Bouroubi, Nicolas Tremblay and Viacheslav Adamchuk</i>
14:50-15:15	76	<b>Yuee Zhi (Shanghai JiaoTong University)</b> Tuning the PID Parameters for Greenhouse Control Based on CFD Simulation <i>Hang Xiao, Lin Feng and Yuee Zhi</i>
15:15-15:40	139	<b>Stephen McClure (Wuhan University)</b> A WebGIS Virtual Globe Platform for Erosion Monitoring and Agricultural Planning <i>Aihong Song, Jian Liu and Stephen McClure</i>
Coffee Break		

<b>Tuesday, August 13</b>		<b>09:00 – 12:20</b>
<b>Plenary session</b> <b>Chair: Jianya Gong</b>		<b>Location: JC Dewberry Hall</b>
Time	Contents	
09:00-09:30	Plenary speech - 1	
09:30-10:00	Plenary speech - 2	
10:00-10:30	Plenary speech - 3	
Coffee break		
11:00-11:30	Plenary speech - 4	
11:30-12:00	Plenary speech - 5	

<b>Tuesday, August 13</b>		<b>14:00 - 15:40</b>
<b>GS01.5</b> <b>Acquisition, processing, and information extraction of Remotely Sensed Data</b> <b>Chair: Raymond Hunt</b>		<b>Location: JC 325 Meeting Room A</b>
Time	ID	Title & Authors
14:00-14:25	130	<b>Ugur Alganci (Istanbul Technical University)</b> A Research on Agricultural Mapping Capabilities of the SPOT 6 Satellite Images <i>Ugur Alganci, Elif Sertel, Sinasi Kaya and Berk Ustundag</i>
14:25-14:50	145	<b>Jiali Shang (Agriculture and Agri-Food Canada)</b> An Evaluation of Biophysical Descriptor Methods for Agricultural Canopies using Airborne Hyperspectral Imagery and Simulated Spaceborne Imagery <i>H Peter White, Khalid Omari and Jiali Shang</i>
14:50-15:15	140	<b>Burak Berk Ustundag (Istanbul Technical University)</b> Land Surface Temperature - Based Spatial Interpolation Using a Modified Inverse Distance Weighting Method <i>Emre Ozelkan, Serdar Bagis, Meric Yucel, Burak Berk Ustundag, Ertunga Cem Ozelkan and Cankut Ormeci</i>
15:15-15:40	147	<b>Raymond Hunt (USDA, Agricultural Research Service)</b> Remote sensing with unmanned aircraft systems for precision agriculture applications <i>E. Raymond Hunt, Craig Daughtry, Dean Hively and Steven Mirsky</i>
Coffee Break		

<b>Tuesday, August 13</b>		<b>16:30 - 17:45</b>
<b>GS01.6</b> <b>Acquisition, processing, and information extraction of Remotely Sensed Data</b> <b>Chair: Ranjay Shrestha</b>		<b>Location: JC 325 Meeting Room A</b>
Time	ID	Title & Authors
16:30-16:55	137	<b>Zhen Yu (West Virginia University)</b> Inconsistent NDVI trends from AVHRR, MODIS, and SPOT sensors in the Tibetan Plateau <i>Zhen Yu, Jingxin Wang, Shirong Liu, Pengsen Sun and Weiguo Liu</i>
16:10-16:35	151	<b>Quanfang Wang (Hubei University)</b>

		Method of parameterization and discrimination of spectral profile shape <i>Quanfang Wang, Yuanyuan Chen, Huaying Wu and Tao He</i>
16:55-17:20	162	<b>Burak Berk Ustundag (Istanbul Technical University)</b> An Adaptive Crop Yield Prediction Model for Real Time Agricultural Information Services <i>B. Berk Ustundag and Yurdakul Sacli</i>
17:20-17:45	180	<b>Ranjay Shrestha (George Mason University)</b> Land/Water Detection and Delineation with Landsat Data using Matlab/ENVI <i>Ranjay Shrestha and Liping Di</i>

<b>Tuesday, August 13</b>		<b>14:00 - 15:40</b>
<b>GS01.7</b> <b>Acquisition, processing, and information extraction of Remotely Sensed Data</b> <b>Chair: Feng Gao</b>		<b>Location: JC 326</b> <b>Meeting Room B</b>
Time	ID	Title & Authors
14:00-14:25	167	<b>Di Wu (George Mason University)</b> The 2012 Agricultural drought Assessment in Nebraska using MODIS Satellite Data <i>Di Wu, John Qu and Xianjun Hao</i>
14:25-14:50	119	<b>Selver Senturk (Istanbul Technical University)</b> Vineyards Mapping Using Object Based Image Analysis <i>Selver Senturk, Elif Sertel and Sinasi Kaya</i>
14:50-15:15	188	<b>Abdoul Nasser Ibrahim (Zhejiang-CAS Application Center for Geoinformatics)</b> Mapping Land Surface Temperature Distribution over Jiashan County based on Multi-source-Multi-resolution Remote Sensing and Meteorological Data Records <i>Abdoul Nasser Ibrahim, Jianhua Gong, Ying Wang, Zhongjin Shan and Ruiping Zhang</i>
15:15-15:40	201	<b>Feng Gao (USDA-ARS, Hydrology and Remote Sensing Lab)</b> Influence of Angular Effects and Adjustment on Medium Resolution Sensors for Crop Monitoring <i>Feng Gao, Tao He, Jeff Masek, Yanmin Shuai, Crystal Schaaf and Zhuosen Wang</i>
Coffee Break		

<b>Tuesday, August 13</b>		<b>16:30 - 17:45</b>
<b>GS01.8</b> <b>Acquisition, processing, and information extraction of Remotely Sensed Data</b> <b>Chair: Jiali Shang</b>		<b>Location: JC 326</b> <b>Meeting Room B</b>
Time	ID	Title & Authors
16:30-16:55	208	<b>Lin Sun (University of Maryland)</b> Land surface temperature retrieval from HJ-1B IRS supported by MODIS <i>Lin Sun, Huiyong Yu and Xinpeng Tian</i>
16:10-16:35	193	<b>Getachew Tesfaye Ayehu (Institute of Land Administration, Bahir Dar University)</b> Land Capability mapping with SPOT data and Geoinformation technology South Gondar, North- Western Highlands of Ethiopia <i>Getachew Tesfaye Ayehu</i>
16:55-17:20	43	<b>Peng Yue (Wuhan University)</b> Asynchronous Geoprocessing Services: An Interoperable Approach <i>Lei Hu, Peng Yue and Jianya Gong</i>

17:20-17:45		<b>Jiali Shang (Agriculture and Agri-Food Canada)</b> Tracking Crop Phenological Development of Spring Wheat Using Synthetic Aperture Radar (SAR) in Northern Ontario, Canada
	87	<i>Jiali Shang</i>

<b>Tuesday, August 13</b>		<b>14:00 - 15:40</b>
<b>GS03.1</b> <b>Agricultural ecosystem monitoring and service sustainability</b> <b>Chair: Xiaodong Zhang</b>		<b>Location: JC 327</b> <b>Meeting Room C</b>
Time	ID	Title & Authors
14:00-14:25	28	<b>Fei Xu (Nanjing University)</b> Landscape Pattern Analysis of Farmland under Different Slope <i>Fei Xu, Huan Li and Wen-Kai Zhang</i>
14:25-14:50	32	<b>Kun Yu (Jiangsu Academy of Agricultural Sciences)</b> Algae blooms in the Yellow Sea between 2010 and 2012 from MODIS observations <i>Kun Yu, Dianmei Lu, Zhiming Wang, Jie Shan and Liangjun Mao</i>
14:50-15:15	33	<b>Huan Li (Nanjing University)</b> Study on spatial-temporal evolution and stimulation of agricultural marginal land from the production factors perspective <i>Huan Li, Fei Xu and Xianjing Huang</i>
15:15-15:40	65	<b>Xiaodong Zhang (China Agricultural University)</b> Environmental Sample Size Estimation Based on Variety Means Estimation and Means Comparison for Multi-environment Trial <i>Zhe Liu, Shaoming Li, Dehai Zhu, Xiaodong Zhang, Lin Li, Qin Ma and Dong An</i>
Coffee Break		

<b>Tuesday, August 13</b>		<b>16:30 - 17:45</b>
<b>GS03.2</b> <b>Agricultural ecosystem monitoring and service sustainability</b> <b>Chair: Weiguo Han</b>		<b>Location: JC 327</b> <b>Meeting Room C</b>
Time	ID	Title & Authors
16:30-16:55	73	<b>Weicheng Wu (International Center for Agricultural Research in the Dry Areas)</b> Multiscale Salinity Mapping in Central and Southern Iraq by Remote Sensing <i>Weicheng Wu, Waleed Al-Shafie, Ahmad Mhaimed, Binan Dardar, Feras Ziadat and William Payne</i>
16:10-16:35	81	<b>Yuee Zhi (Shanghai Jiao Tong University)</b> Greenhouse CFD Simulation for Searching the Sensors Optimal Placements <i>Lin Feng, Hui Li and Yuee Zhi</i>
16:55-17:20	88	<b>Tianchen Qiu (Shanghai Jiao Tong University)</b> Framework and case studies of intelligence monitoring platform in facility agriculture ecosystem <i>Tianchen Qiu, Hang Xiao and Pei Zhou</i>
17:20-17:45	77	<b>Weiguo Han (George Mason University)</b> Discovering Crop Planting Patterns and Their Relationships with Environmental Factors <i>Weiguo Han, Zhengwei Yang, Liping Di and Ali Levent Yagci</i>



<b>Tuesday, August 13</b>		<b>14:00 - 15:40</b>
<b>GS03.3 Agricultural ecosystem monitoring and service sustainability Chair: Yuxin Miao</b>		<b>Location: JC 328 Meeting Room D</b>
Time	ID	Title & Authors
14:00-14:25	90	<b>Huanjun Liu (Northeast Agricultural University, China)</b> Delineating Regional and Local Uniform Management Zones for Agroecosystems Using Geospatial Data <i>Huanjun Liu, Ted Huffman and Xinle Zhang</i>
14:25-14:50	105	<b>Lin Qiu (Jiangsu Academy of Agricultural Sciences)</b> In situ measurement of soil macropores by dye tracing and image analysis <i>Lin Qiu, Xiaomin Chen and Jianjun Pan</i>
14:50-15:15	112	<b>Tanita Suepa (Michigan State University)</b> Integrations Remote Sensing Mapping with the Environmental Model to Quantify Emissions from Rice Paddies in Thailand <i>Tanita Suepa, Jiaguo Qi and Siam Lawawirojwong</i>
15:15-15:40	97	<b>Yuxin Miao (China Agricultural University)</b> Estimating Rice Nitrogen Status with Satellite Remote Sensing in Northeast China <i>Shanyu Huang, Yuxin Miao, Guangming Zhao, Xiaobo Ma, Chuanxiang Tan, Georg Bareth, Uwe Rascher and Fei Yuan</i>
Coffee Break		

<b>Tuesday, August 13</b>		<b>16:30 - 17:45</b>
<b>GS03.4 Agricultural ecosystem monitoring and service sustainability Chair: Guangrong Shen</b>		<b>Location: JC 328 Meeting Room D</b>
Time	ID	Title & Authors
16:30-16:55	164	<b>Ranga Raju Vatsavai (Oak Ridge National Laboratory)</b> Biomass Monitoring at Scale: Summary of Results <i>Ranga Raju Vatsavai, Varun Chandola and Budhendra Bhaduri</i>
16:10-16:35	173	<b>Xiangming Xiao (University of Oklahoma)</b> Global Geo-Referenced Field Photo Library and its application for agriculture <i>Xiangming Xiao, Chandrashekhar Biradar, Pavel Dorovskoy and Jinwei Dong</i>
16:55-17:20	150	<b>Yuqi Bai (Center for Earth System Science, Tsinghua University)</b> A New Generation Of Data Sharing Platform For Eddy Covariance Flux Data <i>Baolei Lv, Yuqi Bai and An Yan</i>
17:20-17:45	192	<b>Guangrong Shen (Shanghai Jiao Tong University)</b> Vegetation dynamics, and land use/land cover change in Chongming Island of Shanghai, China <i>Guangrong Shen, Chuang Ma, Yuee Zhi and Hongping Ren</i>

<b>Wednesday, August 14</b>		<b>09:00 – 12:20</b>
<b>Plenary session</b> <b>Chair: Zhengwei Yang</b>		<b>Location: JC Dewberry Hall</b>
Time	Contents	
09:00-09:30	Invited speech - 6	
09:30-10:00	Invited speech - 7	
10:00-10:30	Invited speech - 8	
Coffee break		
11:00-11:30	Invited speech - 9	
11:30-12:00	Invited speech - 10	

<b>Wednesday, August 14</b>		<b>14:00 - 15:40</b>
<b>GS04.1</b> <b>Crop acreage estimation, growth and yield modeling and condition monitoring</b> <b>Chair: Qinghan Dong</b>		<b>Location: JC 325 Meeting Room A</b>
Time	ID	Title & Authors
14:00-14:25	4	<b>Shinichi Takashima (JAXA)</b> Asia Rice crop monitoring in GEO GLAM <i>Shinichi Takashima, Kei Oyoshi, Toru Fukuda, Toshio Okumura and Nobuhito Tomiyama</i>
14:25-14:50	9	<b>Feiyun Yang (China Meteorological Administration Training center)</b> A Study Of The Method For Dynamic Prediction Of Chinese Cotton's Unit Yield <i>Feiyun Yang</i>
14:50-15:15	10	<b>Kun Yu (Jiangsu Academy of Agricultural Sciences)</b> Crop growth condition monitoring and analyzing in county scale by time series MODIS medium-resolution data <i>Kun Yu, Zhiming Wang, Ling Sun, Jie Shan and Liangjun Mao</i>
15:15-15:40	14	<b>Qinghan Dong (VITO)</b> Crop yield prediction on Huaibei Plain using coarse remote sensing imagery <i>Beier Zhang and Qinghan Dong</i>
Coffee Break		

<b>Wednesday, August 14</b>		<b>16:30 - 17:45</b>
<b>GS04.2</b> <b>Crop acreage estimation, growth and yield modeling and condition monitoring</b> <b>Chair: Min Min</b>		<b>Location: JC 325 Meeting Room A</b>
Time	ID	Title & Authors
16:30-16:55	51	<b>Kyungdo Lee (National Academy of Agricultural Science, Republic of Korea)</b> CAN SATELLITE INFORMATION ESTIMATE RICE YIELD VARIABILITY IN KOREA? <i>Kyungdo Lee, Sukyoung Hong, Jina Hur, Joongbae Ahn, Yihyun Kim, Sangil Na and Soyeong Jang</i>
16:10-16:35	55	<b>Jiong You (Chinese Academy of Agricultural Engineering, Ministry of Agriculture)</b> Discriminant models for crop identification of complex agricultural landscapes

		<i>Jiong You, Zhiyuan Pei and Dongliang Wang</i>
16:55-17:20	71	<b>Qinghan Dong (VITO)</b> Building an operational system for crop monitoring and yield forecasting in Morocco <i>Allard de Wit, Steven Hoek, Riad Ballaghi, Tarik El Hairech and Qinghan Dong</i>
17:20-17:45	34	<b>Min Min (Huazhong Agricultural University)</b> Changes of Geographical Distribution of Crop Yield in China <i>Min Min, Liangzhi You, Tiantian Xu and Te Hu</i>

<b>Wednesday, August 14</b>		<b>14:00 - 15:40</b>
<b>GS04.3</b> <b>Crop acreage estimation, growth and yield modeling and condition monitoring</b> <b>Chair: Yuqi Bai</b>		<b>Location: JC 326</b> <b>Meeting Room B</b>
Time	ID	Title & Authors
14:00-14:25	60	<b>Jianxi Huang (China Agricultural University)</b> Regional winter wheat yield estimation by assimilating MODIS ET and LAI products into SWAP model <i>Jianxi Huang, Hongyuan Ma, Junming Liu and Dehai Zhu</i>
14:25-14:50	114	<b>Jingjing Wang (Jiangsu Academy of Agricultural Sciences)</b> Estimation of Rice Canopy Nitrogen Concentration by Hyperspectral Remote Sensing <i>Jingjing Wang, Ling Sun, Chunlin Shi and Qingjiu Tian</i>
14:50-15:15	205	<b>Guiting Chen (Inner Mongolia Academy of Forestry Science, China)</b> The Analysis on vegetation fraction Dynamic Change of Xilamulun River Basin and precipitation During the Recent 10 Years--a case study of the Balin right banner in north china <i>Guiting Chen, Wen-Jun Zhang and Shi-Hai Lv</i>
15:15-15:40	144	<b>Yuqi Bai (Center for Earth System Science, Tsinghua University)</b> Metadata Standard Proposal for Eddy Covariance Flux Data <i>An Yan, Yuqi Bai and Baolei Lv</i>
Coffee Break		

<b>Wednesday, August 14</b>		<b>16:30 - 17:45</b>
<b>GS05.1</b> <b>Crop, forest, and grass land inventory and land-cover/land-use change</b> <b>Chair: Johannes Liem</b>		<b>Location: JC 326</b> <b>Meeting Room B</b>
Time	ID	Title & Authors
16:30-16:55	17	<b>Jiali Shang (Agriculture and Agri-Food Canada)</b> A Synergy of Object-and Pixel-Based Image Analyses of High Resolution Multi-Temporal Optical Imagery for Accurate Crop Type Classification <i>Bahram Salehi, Bahram Daneshfar, Anrew Davidson and Ian Jarvis</i>
16:10-16:35	27	<b>Ling Sun (JiangSu Academy of Agricultural Sciences)</b> Modeling and Monitoring Arable Land Use <i>Ling Sun and Zesheng Zhu</i>
16:55-17:20	29	<b>Jinya Li (Key Laboratory of Agri-informatics of Ministry of Agriculture)</b> Temporal and Spatial Variations of Grassland Desertification in Lingwu and Yanchi of Ningxia, China

		<i>Jinya Li, Bin Xu, Xiuchun Yang, Lina Zhao, Yunxiang Jin, Zhi Yang, Wenguang Huang, Tian Gao, Haida Yu, Hailong Ma and Zhaihao Qin</i>
17:20-17:45	85	<b>Johannes Liem (Oregon State University)</b> Visualization of Alternative Future Scenarios for Forest Ecosystems Using Animated Statistical Surfaces <i>Helen Jenny, Johannes Liem, Melissa S Lucash and Robert M Scheller</i>

<b>Wednesday, August 14</b>		<b>14:00 - 15:40</b>
<b>GS05.2</b> <b>Crop, forest, and grass land inventory and land-cover/land-use change</b> <b>Chair: Jesslyn Brown</b>		<b>Location: JC 327</b> <b>Meeting Room C</b>
Time	ID	Title & Authors
14:00-14:25	93	<b>Weicheng Wu (International Center for Agricultural Research in the Dry Areas)</b> Using SPOT Imagery to Assess the Effectiveness of Combating Desertification in Marrakech, Morocco <i>Weicheng Wu, Claudio Zucca, Leonarda Dessena and Maurizio Mulas</i>
14:25-14:50	138	<b>Jesslyn Brown (US Geological Survey)</b> Potential Causes and Effects of Increases in Irrigated Cropland Area in the Central U.S. <i>Jesslyn Brown and Shahriar Pervez</i>
14:50-15:15	146	<b>Jiali Shang (Agriculture and Agri-Food Canada)</b> Using Support Vector Machine (SVM) for Agriculture Land Use Mapping with SAR Data: preliminary results from Western Canada <i>Kiana Zolfaghari, Jiali Shang, Heather McNairn, Jonathan Li and Saeid Homayouni</i>
15:15-15:40	168	<b>Ranga Raju Vatsavai (Oak Ridge National Laboratory)</b> Poppy Crop Classification in Afghanistan Using High-resolution Multispectral Imagery <i>Ranga Raju Vatsavai and Budhendra Bhaduri</i>
Coffee Break		

<b>Wednesday, August 14</b>		<b>16:30 - 17:45</b>
<b>GS06.1</b> <b>Integration of RS, GIS and GPS (3S)</b> <b>Chair: Chandrashekhar Biradar</b>		<b>Location: JC 327</b> <b>Meeting Room C</b>
Time	ID	Title & Authors
16:30-16:55	200	<b>Michele Meroni (Joint Research Centre of European Commission)</b> Mapping winter and summer crops in Uruguay using MODIS time series <i>Christelle Vancutsem, Jean-Francois Pekel, Francois Kayitakire, Gregory Duveiller, Walter Baethgen and Pietro Ceccato</i>
16:10-16:35	160	<b>Gil Heo (George Mason University)</b> A Reconfigurable Open GeoSMS Mobile Client App Design for Android Smartphones <i>Gil Heo, Genong Yu and Liping Di</i>
16:55-17:20	157	<b>Weiguo Han (George Mason University)</b> A comparison of Web Geocoding services for integration in a Web geospatial application in agriculture <i>Weiguo Han, Zhengwei Yang, Liping Di and Bei Zhang</i>
17:20-17:45	195	<b>Chandrashekhar Biradar (International Center for Agricultural Research in Dry Areas)</b>

		Role of geoinformatics in ensuing global food security with special reference to dryland agroecosystems <i>Chandrashekhar Biradar, William Payne, Xiangming Xiao and Prasanna Gowda</i>
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<b>Wednesday, August 14</b>		<b>14:00 - 15:40</b>
<b>GS07.1</b> <b>Cropland evapotranspiration, soil moisture, and drought monitoring</b> <b>Chair: Michele Meroni</b>		<b>Location: JC 328</b> <b>Meeting Room D</b>
Time	ID	Title & Authors
14:00-14:25	36	<b>Jinlong Fan (The National Satellite Meteorological Center, China)</b> A comprehensive crop drought index based on multiple crop condition indicators <i>Jinlong Fan, Jianxi Huang, Wenbo Xu and Jianjun Wu</i>
14:25-14:50	128	<b>Ajla Kulagic (Istanbul Technical University)</b> Spatiotemporal Soil Moisture Estimation for Agricultural Drought Risk Management <i>Ajla Kulagic, B.Berk Üstündağ and Serdar Bagis</i>
14:50-15:15	185	<b>Zhenzhen Jia (Beijing Normal University)</b> Intercomparison of Evapotranspiration Models Using Remote Sensing Data and Ground Measurements during the MUSOEXE-12 Campaign <i>Zhenzhen Jia, Shaomin Liu, Shunlin Liang and Ziwei Xu</i>
15:15-15:40	8	<b>Michele Meroni (Joint Research Centre of European Commission)</b> Regional drought monitoring using phenologically-tuned biomass production estimates from SPOT-VGT FAPAR <i>Michele Meroni, Dominique Fasbender, Francois Kayitakire, Giancarlo Pini, Felix Rembold, Ferdinando Urbano and Michel Verstraete</i>
Coffee Break		

<b>Wednesday, August 14</b>		<b>16:30 - 17:45</b>
<b>GS08.1</b> <b>Interoperability and standards in agricultural information systems</b> <b>Chair: Yuanzheng Shao</b>		<b>Location: JC 328</b> <b>Meeting Room D</b>
Time	ID	Title & Authors
16:30-16:55	45	<b>Jia Li (Wuhan University)</b> A Sensor Capability Information Model under Geospatial Sensor Web Environment <i>Nengcheng Chen, Jia Li and Chuli Hu</i>
16:10-16:35	74	Tianchen Qiu (Shanghai Jiao Tong University) Integration of Heterogeneous Agriculture Information System Based on Interoperation of Domain Ontology <i>Hang Xiao, Tianchen Qiu and Pei Zhou</i>
16:55-17:20	148	<b>Aijun Chen (George Mason University)</b> Extending Data Provenance in OGC Catalogue Service <i>Aijun Chen, Peng Yue, Genong Yu and Liping Di</i>
17:20-17:45	22	<b>Yuanzheng Shao (George Mason University)</b> An integrated framework for geospatial data discovering and standardized processing <i>Yuanzheng Shao, Liping Di, Lingjun Kang and Yuqi Bai</i>

<b>Thursday, August 15</b>		<b>09:00 – 12:20</b>
<b>Plenary session</b> <b>Chair: Ruixing Yang</b>		<b>Location: JC Dewberry Hall</b>
Time	Contents	
09:00-09:30	Invited speech - 11	
09:30-10:00	Invited speech - 12	
10:00-10:30	Invited speech - 13	
Coffee break		
11:00-11:30	Invited speech - 14	
11:30-12:00	Invited speech - 15	

<b>Thursday, August 15</b>		<b>14:00 - 15:40</b>
<b>GS09.1</b> <b>Remote-sensing based agricultural disaster monitoring, assessment, and mitigation</b> <b>Chair: Meixia Deng</b>		<b>Location: JC 325 Meeting Room A</b>
Time	ID	Title & Authors
14:00-14:25	26	<b>Ling Sun (JiangSu Academy of Agricultural Sciences)</b> Approach to Disaster Management of Agricultural Environment <i>Ling Sun and Zesheng Zhu</i>
14:25-14:50	109	<b>Hao Hu (Zhejiang Academy of Agricultural Sciences)</b> Relation of Leaf Digital Image, Chlorophyll Fluorescence, Reflectance and SPAD in Rice and Barley <i>Hao Hu and Shibo Fang</i>
14:50-15:15	132	<b>Meixia Deng (George Mason University)</b> Impacts Of Crop Rotation On Remote Sensing Based Agricultural Drought Indicators <i>Meixia Deng, Ali Yagci and Liping Di</i>
15:15-15:40	183	<b>Bei Zhang (George Mason University)</b> A Web Service Based Application Serving Vegetation Condition Indices for Flood Crop Loss Assessment <i>Bei Zhang, Liping Di, Genong Yu, Yuanzheng Shao, Ranjay Shrestha and Lingjun Kang</i>
Coffee Break		

<b>Thursday, August 15</b>		<b>16:30 - 17:45</b>
<b>GS09.2</b> <b>Remote-sensing based agricultural disaster monitoring, assessment, and mitigation</b> <b>Chair: Genong Yu</b>		<b>Location: JC 325 Meeting Room A</b>
Time	ID	Title & Authors
16:30-16:55	154	<b>Xiaoyang Zhang (University of Maryland)</b> Monitoring Drought-impacts on Crop Yield in Central United States Using Satellite-derived Crop Phenology <i>Xiaoyang Zhang</i>
16:10-16:35	178	<b>Ranjay Shrestha (George Mason University)</b>

		Detection Of Flood And Its Impact On Crops Using NDVI <i>Ranjay Shrestha, Liping Di, Genong Yu, Yuanzheng Shao, Lingjun Kang and Bei Zhang</i>
16:55-17:20	202	<b>Taeyoung Choi (SigmaSpace Corp)</b> A Thirteen-year Analysis of Drought in the Horn of Africa with MODIS NDVI and NWDI Measurements <i>Taeyoung Choi, John Qu and Xiaoxiong Xiong</i>
17:20-17:45	179	<b>Genong Yu (George Mason University)</b> Remote-Sensing-Based Flood Damage Estimation Using Crop Condition Profiles <i>Genong Yu, Liping Di, Bei Zhang, Yuanzheng Shao, Ranjay Shrestha and Lingjun Kang</i>

<b>Thursday, August 15</b>		<b>14:00 - 15:40</b>
<b>GS10.1</b> <b>Weather information representation and water resource planning</b> <b>Chair: Manzhu Yu</b>		<b>Location: JC 326</b> <b>Meeting Room B</b>
Time	ID	Title & Authors
14:00-14:25	187	<b>Yan Jiang (China Institute of Water Resources and Hydropower Research)</b> Adoption of surface pipe and underground pipe for water saving in North China <i>Yan Jiang</i>
14:25-14:50	198	<b>Xiaoxiang Chen (Sun Yat-sen University)</b> Suitability Evaluation of Habitat for Ardeidae Waterfowls Based on Logistic Regression Model <i>Xiaoxiang Chen, Lili Zou and Ying He</i>
14:50-15:15	110	<b>Hao Feng (Wuhan University)</b> Real-time rain and snow rendering <i>Wei Ding, Zhongbin Zhu, Xiaoming Chen, Changhua Zhang, Yongjiang Liang, Shixiang Li, Hong Fan and Hao Feng</i>
15:15-15:40	171	<b>Manzhu Yu (George Mason University)</b> Utilizing High Spatiotemporal Resolution Soil Moisture and Vegetation Cover Data for Dust Storm Modeling <i>Manzhu Yu, Chaowei Yang, Qunying Huang, Zhipeng Gui and Jizhe Xia</i>
Coffee Break		

<b>Thursday, August 15</b>		<b>16:30 - 17:45</b>
<b>GS11.1</b> <b>Student Paper Competition</b> <b>Chair: Zhengwei Yang</b>		<b>Location: JC 326</b> <b>Meeting Room B</b>
Time	ID	Title & Authors
16:30-16:55	13	<b>Jie Dong (Huazhong Agricultural University)</b> Land Intensive Use Evaluation for Wuhan Metropolitan Agglomeration Based on Entire-Array-Polygon Evaluation Model <i>Long Cheng and Jie Dong</i>
16:10-16:35	16	<b>Chunming Peng (George Mason University)</b> A Comprehensive Agricultural Drought Stress Monitoring Method Integrating MODIS and Weather Data <i>Chunming Peng, Liping Di, Meixia Deng, Weiguo Han and Ali Yagci</i>
16:55-17:20	82	<b>Patricia Lawston (University of Delaware)</b> Impact of Irrigation Methods on LSM spinup and Initialization of WRF Forecasts

		<i>Patricia Lawston and Joseph Santanello Jr.</i>
17:20-17:45	113	<b>Julia Di (Richard Montgomery High School)</b> The Satellite Assessment of Impact of the 2012 Great Drought on Corn Growth in the U.S. Corn Belt <i>Julia Di</i>

<b>Thursday, August 15</b>		<b>14:00 - 14:45</b>
<b>GS11.2 Student Paper Competition</b> Chair: Ruixing Yang		<b>Location: JC 327 Meeting Room C</b>
Time	ID	Title & Authors
14:00-14:25	163	<b>Ioannis Kokkinidis (Virginia Polytechnic Institute and State University)</b> Calculating Ecosystem Services provided by agricultural land using GIS and Remote Sensing methods <i>Ioannis Kokkinidis and Steven Hodges</i>
14:25-14:50	174	<b>Xiang Zhang (Wuhan University)</b> Design and Implementation of scalable GetFeasibility Service to enhance Sensor Planning Service for Earth Observation Task <i>Xiang Zhang and Nengcheng Chen</i>
14:50-15:15	190	<b>Jie Dong (Huazhong Agricultural University)</b> Urban Agglomerations Land Use Structure Optimization Based on Regional Carbon Balance <i>Kaiqi Yun and Jie Dong</i>
15:15-15:40		
Coffee Break		

<b>Thursday, August 15</b>		<b>16:30 - 17:45</b>
<b>GS11.3 Student Paper Competition</b> Chair: Ruixing Yang		<b>Location: JC 327 Meeting Room C</b>
Time	ID	Title & Authors
16:30-16:55	175	<b>Xunliang Yang (Wuhan University)</b> Design and Implementation of Heterogeneous Sensor Registry Category Service <i>Xunliang Yang, Nengcheng Chen and Xiaolei Wang</i>
16:10-16:35	206	<b>Qin Ma (University of Western Ontario)</b> Assessment of Multi-temporal RADARSAT-2 Polarimetric SAR Data for Crop Classification in an Urban/Rural Fringe Area <i>Qin Ma, Jinfei Wang, Jiali Shang and Peng Wang</i>
16:55-17:20	177	<b>Lingjun Kang (George Mason University)</b> Scale dependent relationship between vegetation index and precipitation <i>Lingjun Kang, Liping Di, Meixia Deng, Yuanzheng Shao, Eugene Yu, Bei Zhang and Ranjay Shrestha</i>
17:20-17:45		



<b>Friday, August 16</b>	<b>08:30 - 12:30</b>
<b>Field Trip</b>	<b>Location: Washington D.C</b>
More details about field trip will be released in the final program.	

## Poster Session

August 12 - 14		13:30-15:10
Poster Session		Location: JC Dewberry Hall
ID	Title & Authors	
79	A Fast Inversion Of Lai And Chlorophyll Content Of Maize Using Worldview-2 Image Base On Canopy Reflectance Model And Vegetation Index <i>Zongnan Li, Zhiwei Jiang, Zhongxin Chen and Limin Wang</i>	
44	Water resources assessment based on remote sensing data in northwest China <i>Liang Sun and Zhongxin Chen</i>	
18	Reasonable adjustment of samples layout in spatial sampling for estimating winter wheat acreage <i>Di Wang, Zhongxin Chen, Qingbo Zhou and Jia Liu</i>	
116	A REVIEW OF DATA ASSIMILATION OF CROP GROWTH SIMULATION BASED ON REMOTE SENSING INFORMATION <i>Zhiwei Jiang, Zongnan Li, Liang Sun and Zhongxin Chen</i>	
143	Soft Classification for Crop Land Covers Using Low-Resolution Remote Sensing Images <i>Zhongxin Chen</i>	
142	A Spatial Sampling Scheme for Crop land Cover Survey <i>Zhongxin Chen</i>	
120	crop discrimination using field hyper spectral remotely sensed data <i>Mohamed Aboelghar, Sayed Arafat and Eslam Farag</i>	
199	Spatial Variation of Soil Properties and its Affecting Factors at Small Scale <i>Haitao Zhang, Xue Tian, Jie Zhang and Long Guo</i>	
100	Land Suitability Evaluation Study Based on GIS Technology <i>Liquan Qu and Yuanzheng Shao</i>	
189	Multipurpose use possibility of Zagros Forest Areas Using GIS, RS and AHP <i>Naser Ahmadi Sani and Timo Pukkala</i>	
199	Spatial Variability of Soil Properties and its Affecting Factors at Small Scale <i>Haitao Zhang, Xue Tian, Jie Zhang and Long Guo</i>	
144	Metadata Standard Proposal for Eddy Covariance Flux Data <i>An Yan, Yuqi Bai and Baolei Lv</i>	
155	Disaster Impact Analysis based on Integration of multi-source Geographic information <i>Xinlin Qian, Fuhao Zhang and Jiping Liu</i>	
6	Potential Applications of Altimetry Radar on Water Resources Management in Nile River of Sudan <i>Carlos Pascual</i>	
111	POTENTIAL APPLICATIONS OF RADAR ALTIMETRY ON WATER RESOURCES MANAGEMENT IN NILE RIVER <i>Carlos Pascual</i>	
50	Spatio-temporal Change of Vegetation NDVI and its Relations with Regional Climate in Northern Shaanxi Province since Implementation of Returning Farmland to Forests Project <i>Jianjun Bai, Jiangtao Bai and Lei Wang</i>	
98	Sensitivity of C-band SAR to Normalized Difference Vegetation Index for Corn and Soybean <i>Qin Ma, Jinfei Wang and Jiali Shang</i>	
31	A New Classification Method Based on Support Vector Regression of NDVI Time Series for Agricultural Crops Mapping <i>Saeid Niazmardi, Hamidreza Khanahmadlou, Jiali Shang, Heather McNarin and Saeid Homayouni</i>	
141	Early Detection of Crop Injury from Glyphosate by Foliar Biochemical Parameter Inversion through Leaf	

	Reflectance Measurement <i>Yiqing Guo, Feng Zhao, Yanbo Huang, Matthew A. Lee, Krishna N. Reddy, Reginald Fletcher, Steven J. Thomson and Jianxi Huang</i>
149	Yield estimation of semilate rice using remote sensing data in Honghu city, China <i>Wei Wang, Qianfang Wang, Huaying Wu, Yuanyuan Chen and Xinsheng Wang</i>

## Table of sessions

GS01	Acquisition, processing, and information extraction of Remotely Sensed Data
GS02	Agricultural Decision Support Systems
GS03	Agricultural ecosystem monitoring and service sustainability
GS04	Crop acreage estimation, growth and yield modeling and condition monitoring
GS05	Crop, forest, and grass land inventory and land-cover/land-use change
GS06	Integration of RS, GIS and GPS (3S)
GS07	Cropland evapotranspiration, soil moisture, and drought monitoring
GS08	Interoperability and standards in agricultural information systems
GS09	Remote-sensing based agricultural disaster monitoring, assessment, and mitigation
GS10	Weather information representation and water resource planning
GS11	Student Paper Competition

For any questions, please contact conference committee at [info@agro-geoinformatics2013.org](mailto:info@agro-geoinformatics2013.org)