



AAG Annual Meeting

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Paper Session:

4580 Multi-temporal Analysis of Remote Sensing Data: Methods and Applications I

is scheduled on Friday, 4/11/2014, from 2:40 PM - 4:20 PM in Meeting Room 11, Marriott, Third Floor

Sponsorship(s):

Remote Sensing Specialty Group
Spatial Analysis and Modeling Specialty Group

Organizer(s):

[Le Wang](#) - SUNY at Buffalo
[Bing Xu](#)

Chair(s):

[Le Wang](#) - SUNY at Buffalo

Abstract(s):

2:40 PM Author(s): *Ayodeji Steve Adesuyi - Stellenbosch university

Abstract Title: *USING TIME SERIES NDVI TO MODEL LAND COVER CHANGE: A CASE STUDY IN THE BERG RIVER CATCHMENT AREA OF WESTERN CAPE. SOUTH AFRICA*

3:00 PM Author(s): *Xuebin Yang, 90063279 - The University of Texas at Austin
Kelley A. Crews, 09701023 - The University of Texas at Austin

Abstract Title: *Woody Plant Encroachment Monitoring: An Approach Combining Object-Based Image Analysis and Decision Tree Analysis*

3:20 PM Author(s): Ruiyun Li - Beijing Normal University
Ping Zhang -
Yongmei Lu - Texas State University
*Bing Xu - Tsinghua University

Abstract Title: *Modeling the risk of highly pathogenic avian influenza H5N1 in wild birds and poultry of China*

3:40 PM Author(s): *Nicholas Cuba - Clark University
John Rogan - Clark University
Anthony Bebbington - Clark University

Abstract Title: *Temporally dense Landsat and MODIS data series reveal land change dynamics of mining and agriculture in La Libertad, Peru*

Session Description: A plethora of multi-temporal remote sensing data ranging from local to global coverage have been acquired and made available to the scientific community. Such dataset presents us an unprecedented opportunity to improve our scientific understanding of various dynamic processes associated with earth system, particularly land change science. However, there is a lack of methods and applications to synthesize the abundant spectral, spatial, and temporal information embedded in such rich dataset. Of particular note is the added temporal dimension presenting special challenges in the data analysis. To this end, this session invites papers focusing on both methodological and applied research using multi-temporal remotely sensed data.

Potential topics for this session may include, but are not limited to:

- Image registration, calibration and correction
- Data fusion
- Multi-temporal image classification
- Change detection
- Accuracy assessment and uncertainty analysis
- Multi-temporal LIDAR, SAR and InSAR data analysis
- Land-cover and land-use dynamics monitoring and modeling
- Ecosystem process monitoring and modeling
- Urban dynamics characterization
- Water resources monitoring and modeling
- Vegetation dynamics monitoring and modeling
- Ecosystem response to the climate change
- Impact of climate change on human society
- Impact of climate change on human health

New Query