Paper Session:

4680 Multi-temporal Analysis of Remote Sensing Data: Methods and Applications II

is scheduled on Friday, 4/11/2014, from 4:40 PM - 6:20 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):
Bing Xu

Abstract(s):

4:40 PM Author(s): *Yi Qiang - Louisiana State University
Nina Lam, Dr. - Louisiana State University

Abstract Title: *MODELING LAND USE AND LAND COVER CHANGES IN A VULNERABLE COASTAL REGION USING ARTIFICIAL NEURAL NETWORK*

5:00 PM Author(s): *Qiusheng Wu - University of Cincinnati

Abstract Title: *Visualizing and quantifying dynamic processes of agricultural drought events based on passive microwave data and spatio-temporal models*

5:20 PM Author(s): *Cuizhen (Susan) Wang - University of South Carolina
Cheng Zhong - University of South Carolina

Abstract Title: *Assessing Bioenergy-driven Agricultural Land Use Change and Biomass Quantification with Time-series MODIS Imagery in the U.S. Midwest*

5:40 PM Author(s): *Fei Yuan - Minnesota State University, Mankato
Martin Mitchell - Minnesota State University

Abstract Title: *Long-term Land Use Changes affected by the Conservation Reserve Program along the Minnesota River Basin*

6:00 PM Author(s): *Le Wang - SUNY at Buffalo
xiaomeng liu - Capital Normal University

Abstract Title: *Mapping Mangrove Gap dynamics with Multi-temporal remote sensing images*

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

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