Paper Session:

5452 Multi-temporal Analysis of Remote Sensing Data: Methods and Applications I

is scheduled on Saturday, 4/25/2015, from 2:00 PM - 3:40 PM in Stetson BC, Hyatt, West Tower, Purple Level

Sponsorship(s):
Remote Sensing Specialty Group
Geographic Information Science and Systems Specialty Group
Spatial Analysis and Modeling Specialty Group

Organizer(s):
Le Wang - SUNY at Buffalo
Cuizhen Wang - University of South Carolina

Chair(s):
Le Wang - SUNY at Buffalo

Abstract(s):

2:00 PM Author(s): *Xuebin Yang - The University of Texas at Austin
Kelley A. Crews - The University of Texas at Austin

Abstract Title: *Maximum realizable woody cover in central Texas savannas: an application of piecewise quantile linear regression*

2:20 PM Author(s): *Chunyuan Diao - University at Buffalo
Le Wang - University at Buffalo

Abstract Title: *Mapping invasive saltcedar distribution with spectral and phenological information from multi-temporal Landsat TM imagery*

2:40 PM Author(s): *Iryna Dronova - UC Berkeley
Peng Gong - Universify of California Berkeley

Abstract Title: *Remote sensing of wetland change: addressing spatial and temporal complexity*

3:00 PM Author(s): *Cuizhen Wang - University of South Carolina
Qian Fan - University of South Carolina
William M. SooHoo - University of South Carolina
Cheng Zhong - University of South Carolina

Abstract Title: *Assessing bioenergy land use in the BCAP lands with the STARFM-disaggregated MODIS/Landsat time series*

Session Description: A plethora of multi-temporal remote sensing data ranging from passive to active, local to global coverage have been acquired and made available to scientific community. Such dataset presents us an unprecedented opportunity to advance our scientific understanding of various dynamic processes associated with earth system, particularly land change science. However, there are lack of methods and applications to synthesize the 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:

- Multi-source image registration, intercalibration 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

New Query