Paper Session:

4638 Multi-temporal Analysis of Remote Sensing Data: Methods and Applications II

is scheduled on Friday, 4/12/2013, from 4:40 PM - 6:20 PM in Laguna Parlor 3064, Westin, 30th Floor

Sponsorship(s):
Remote Sensing Specialty Group
Spatial Analysis and Modeling Specialty Group

Organizer(s):
Le Wang - SUNY at Buffalo

Chair(s):
Junmei Tang - University of Maryland, Baltimore County

Abstract(s):

4:40 PM Author(s): *Shanshan Cai - The Ohio State University
Desheng Liu - The Ohio State University

Abstract Title: *A Hierarchical Data Segmentation Approach For Detecting Change Date Using MODIS NDVI Time Series From 2000 to 2012*

5:00 PM Author(s): *Xianwei Wang - Sun Yat-sen University
Yan Chen - Sun Yat-sen University
Lin Liu - Sun Yat-sen University

Abstract Title: *Analysis of lengths, water areas and volumes of the Three Gorges Reservoir at different water levels using Landsat images and SRTM DEM data*

5:20 PM Author(s): *Courtney R. Wilson - University of Michigan

Abstract Title: *Using Satellite Imagery to Evaluate and Analyze Socioeconomic Changes in Southeast Michigan*

5:40 PM Author(s): *Bo Yang - University of Cincinnati
Hongxing Liu - University of Cincinnati
Emily Lei Kang - University of Cincinnati
Qiusheng Wu - University of Cincinnati

Abstract Title: *Spatiotemporal cokriging: Assimilation of Multi-Sensor Multi-scale Thermal Images over Thaw Lakes in the North Alaska*

6:00 PM Author(s): *Junmei Tang - University of Maryland, Baltimore County

Abstract Title: *Linking the Spectral Reflectance with the Phenological Variation in Foliar Biochemistry and Trait Properties in Urban Environment*

Session Description: A plethora of multi-temporal remote sensing data ranging from 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:
- 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

New Query