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(58) 2013 AAG Annual Meeting, Los Angeles, California

Paper Session:

4538 Multi-temporal Analysis of Remote Sensing Data: Methods and Applications I

is scheduled on Friday, 4/12/2013, from 2:40 PM - 4:20 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):
Le Wang - SUNY at Buffalo

Abstract(s):

2:40 PM Author(s): *Kellie Uyeda - San Diego State University

Abstract Title: *Characterizing chaparral biomass accumulation based on MODIS NDVI time series*

3:00 PM Author(s): *Michael P. Bishop, Ph.D. - Texas A & M University
Jeffrey D. Colby, Ph.D. - Appalachian State University
Anthony M. Filippi, Ph.D. - Texas A & M University

Abstract Title: *Evaluation of Topographic Normalization Methods for Multispectral Satellite Data*

3:20 PM Author(s): *Tao Zheng - Central Michigan University
Pangle Kevin, Dr. - Central Michigan University
Yong Tian, Dr. - Central Michigan University

Abstract Title: *Lake Erie Water Clarity from Remotely Sensed Imagery*

3:40 PM Author(s): *Katherine S Willis, MA - UCLA
Stacey Ostermann-Kelm, PhD - Mediterranean Coast Network NPS I&M Program
Lena Lee, MA - Mediterranean Coast Network NPS I&M Program
Thomas W Gillespie, PhD - UCLA
Glen M MacDonald, PhD - UCLA
Felicia Federico, PhD - UCLA

Abstract Title: *A historical report of landscape dynamics in three southern California National Parks: monitoring changes in land use, vegetation type, phenology, and light pollution using remote sensing*

4:00 PM Author(s): *Le Wang - SUNY at Buffalo

Abstract Title: *Understanding saltcedar invasions with three decades' Landsat TM imagery*

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