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

Paper Session:

3410 Spatiotemporal Thinking, Computing and Applications 3: Methodologies

is scheduled on Thursday, 4/11/2013, from 12:40 PM - 2:20 PM in San Gabriel A, Westin, Lobby Level

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

Organizer(s):
Chaowei Yang - George Mason University
Weihe Wendy Guan - Harvard University

Chair(s):
Christopher Tucker - Map Story

Abstract(s):

12:40 PM Author(s): *Qiao Li - Clark University
Jie Tian, PhD - Clark University

Abstract Title: *A spatial-temporal analysis of the relationship between MODIS AOD and PM2.5 in Massachusetts*

1:00 PM Author(s): *Eunmok Lee - Univ. of Kansas

Abstract Title: *Analysis of Different Versions and Different Compositing Periods of MODIS 250 m NDVI for Crop Separability*

1:20 PM Author(s): *Neeti Neeti - Boston University
J R Eastman - Clark University

Abstract Title: *Novel approaches in Extended Principal Components Analysis to compare spatio-temporal patterns among multiple image time series*

1:40 PM Author(s): *Shuwen Niu - College of Earth and Environmental Sciences, Lanzhou University, Lanzhou, China
Xiufang Zhang - College of Earth and Environmental Sciences, Lanzhou University, Lanzhou, China
Xiao Feng - College of Earth and Environmental Sciences, Lanzhou University, Lanzhou, China
Wendie Wang - College of Earth and Environmental Sciences, Lanzhou University, Lanzhou, China

Abstract Title: *Spatial-temporal Characteristics and Driving Factors of Urban Land Expansion of A Valley City: A Case of Tianshui City in Western China*

2:00 PM Author(s): *Hyeyoung Kim - The Ohio State University
Ningchuan Xiao - The Ohio State University

Abstract Title: *An agent based approach to simulating spatiotemporal dynamics of foot-and-mouth disease transmission in Cameroon*

Session Description: Following the success of last year's spatiotemporal thinking, computing and application sessions, we are organizing a series of paper and panel sessions on STCA to continue the discussion and to take the first steps toward building a research agenda. The topics include but are not limited to

1. What are spatiotemporal thinking, computing and applications?
2. Are there undiscovered spatiotemporal principles or laws?
3. Forming and/or utilizing spatiotemporal thinking as a methodology and innovative conceptual process to develop geographic science discovery and application.
4. How do we detect spatiotemporal changes using remote sensing and sensor web technologies?
5. What are the new computing, software, and application products to address spatiotemporal problems?
6. How can spatiotemporal thinking and computing be used to manage and develop cloud computing and Big Data solutions?
7. How can spatiotemporal thinking and computing be used to optimize agent based modeling?
8. Exploration of spatiotemporal patterns for various geographic sciences, such as climate change, ocean science, environmental science, disaster and sustainability studies.
9. Does a spatiotemporal approach facilitate better understanding of the physical and social sciences?
10. How do we educate the next generation workforce with spatiotemporal knowledge and methods?
11. How best to communicate spatiotemporal knowledge.

New Query