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

AAG Annual Meeting

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Paper Session:

4210 Spatiotemporal Thinking, Computing and Applications 7: Big Data

is scheduled on Friday, 4/12/2013, from 10:00 AM - 11:40 AM in San Gabriel A, Westin, Lobby Level

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

Organizer(s):
Chaowei Yang - George Mason University
Keith Clarke - University Of California, Santa Barbara

Chair(s):
Chaowei Yang - George Mason University

Abstract(s):

10:00 AM   Author(s): *Jin Xing - McGill University
Renee Sieber - McGill University
Margaret Kalacska - McGill University

 Abstract Title: *Big Data in Intelligent Geographic Image Analysis: Challenges and Approaches*

10:18 AM   Author(s): *Dean Riddlesden - University of Liverpool
Alex D Singleton - University of Liverpool

 Abstract Title: *Exploring the Geography of Access to Fixed Line Broadband Services in England through Crowd Sourced Speed Check Data*

10:36 AM   Author(s): *Josef C Gordon, Master's Student - University of Oregon

 Abstract Title: *Comparison of Twitter-based Voter Preferences during the 2008 and 2012 U.S. Presidential Elections*

10:54 AM   Author(s): *Zhenlong LI - George Mason University
Chaowei Phil Yang - George Mason University
Min Sun - George Mason University
Jing Li - George Mason University
Chen Xu - George Mason University
Qunying Huang - George Mason University
Kai Liu - George Mason University

 Abstract Title: *A performance improved online system for analyzing and visualizing spatiotemporal data for climate studies*

11:12 AM   Author(s): *Joshua E. Stevens - The Pennsylvania State University
Alan M. MacEachren - The Pennsylvania State University

 Abstract Title: *Accommodating Big Data in Visual Analytics: Pairing Computation with Cognition*

11:30 AM   Discussant: Daniel Sui - The Ohio State University

Discussant(s):
Daniel Sui - The Ohio State University

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.

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