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

## AAG Annual Meeting

**Paper Session:**

**4410 Spatiotemporal Thinking, Computing and Applications 8: Software Tools**

is scheduled on Friday, 4/12/2013, 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):*
Dawn Wright - Environmental Systems Research Institute

*Abstract(s):*

**12:40 PM   Author(s):** *Trina Weilert - University of Missouri Kansas City
Wei Ji, Dr. - University of Missouri Kansas City

 Abstract Title: *Assessing Urban Riparian Landscape Changes Using Geospatial Techniques*

**12:58 PM   Author(s):** *I-Hsiang Wang - Department of Geography, National Taiwan University
Tzai-Hung Wen - Department of Geography, National Taiwan University

 Abstract Title: *Tracking the Dynamics of Spatial-Temporal Clustering*

**1:16 PM   Author(s):** *Bridget Kraynik - Ohio University
Gaurav Sinha, PhD. - Ohio University

 Abstract Title: *Identifying Potential Flood Risk Areas Under Climate Change and Urbanization Scenarios Using GIS and Hydrological Modeling Tools*

**1:34 PM   Author(s):** *Douglas Clark - US Bureau Of Reclamation
Curt Brown - Bureau of Reclamation
Dennis Kubly - Bureau of Reclamation

 Abstract Title: *Tools for Resolving Disputes over Science in Water Resource Agency Decision Making*

**1:52 PM   Author(s):** *Benjamin T Tuttle, PhD - NGA

 Abstract Title: *Leveraging Open Source Software & Standards in Support of Disconnected Mobile Map Caches*

**2:10 PM   Discussant:** Shaowen Wang - University of Illinois at Urbana-Champaign

*Discussant(s):*
Shaowen Wang - University of Illinois at Urbana-Champaign

**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