



## AAG Annual Meeting

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### Paper Session:

#### 3120 Symposium on Synergistic Advances of CyberGIS and Geography: CyberGIS, Linked Data, and Geospatial Semantics

is scheduled on Thursday, 4/10/2014, from 8:00 AM - 9:40 AM in Room 20, TCC, First Floor

#### Sponsorship(s):

Cyberinfrastructure Specialty Group  
Geographic Information Science and Systems Specialty Group  
Spatial Analysis and Modeling Specialty Group

#### Organizer(s):

[Shaowen Wang](#) - University of Illinois at Urbana-Champaign  
[Krzysztof Janowicz](#) - University of California, Santa Barbara

#### Chair(s):

[Krzysztof Janowicz](#) - University of California, Santa Barbara

#### Abstract(s):

**8:00 AM Author(s):** \*Chuanrong Zhang - University of Connecticut, Department of Geography and Center for Environmental Sciences & Engineering  
Tian Zhao - University of Wisconsin–Milwaukee, Department of Computer Science  
Luc Anselin - Arizona State University, School of Geographical Sciences & Urban Planning  
Weidong Li - University of Connecticut, Department of Geography & Center of Environmental Sciences and Engineering  
Ke Chen - University of Wisconsin–Milwaukee, Department of Computer Science

Abstract Title: *A Parallel Approach for Improving Query Performance in a Geospatial Semantic Web for Disaster Response*

**8:20 AM Author(s):** \*James W. Wilson, Ph.D. - James Madison University

Abstract Title: *Comparing GeoSPARQL & Common Internet GIS Interface Queries of USGS National Map Data*

**8:40 AM Author(s):** \*Krzysztof Janowicz - University of California, Santa Barbara

Abstract Title: *Semantic Shortcuts and Views: Bridging the Gap between Ontologies and Linked Data*

**9:00 AM Author(s):** \*Robert Pahle - GeoDa, ASU

Luc Anselin - GeoDa, ASU  
Sergio Rey - GeoDa, ASU  
Julia Koschinsky - GeoDa, ASU

Abstract Title: *A blue-print for flexible generation of collaborative decision environments*

**Session Description:** AAG 2014 Symposium on Synergistic Advances of CyberGIS and Geography

Organizing Committee: Luc Anselin, Budhendra Bhaduri, Chen-Chieh Feng, Jianya

Gong, Diansheng Guo, Michael Goochild, Krzysztof Janowicz, Mei-Po Kwan, Wenwen Li, Timothy Nyerges, Ed Parsons, Sergio Rey, Douglas Richardson, Anand Padmanabhan, Eric Shook, Alexandre Sorokine, Ming-Hsiang (Ming) Tsou, E. Lynn Usery, Shaowen Wang, Nancy Wilkins-Diehr, David White, Dawn Wright, Huayi Wu, and Chaowei Yang

CyberGIS - geographic information science and systems (GIS) based on advanced infrastructure of computing, information, and communication technologies (aka cyberinfrastructure or e-infrastructure) – has emerged over the past several years as a vibrant interdisciplinary field and played essential roles in enabling computing- and data-intensive geospatial research and education across a number of domains with significant societal impact. At AAG 2014, we plan to address synergistic advances of CyberGIS and Geography by building on the success of the CyberGIS Symposium @ AAG 2013 (with 17 paper and panel sessions and active participation from academia, government and industry). To this end, the AAG 2014 Symposium on CyberGIS and Geography is scheduled to take place during April 8-11, and will include a suite of panel and paper sessions.

#### Panel Sessions

- \* CyberGIS and Geography: Fostering Synergistic Advances
- \* CyberGIS as an Integration Science
- \* CyberGIS Body of Knowledge
- \* CyberGIS Education
- \* Frontiers and Roadmaps: Academic, Governmental, Industrial Perspectives
- \* 360-Degree Comparison – CyberGIS and Related (e.g., Cloud GIS, GeoWeb, Internet GIS, Mobile GIS, Online GIS, Spatial Computing, Geospatial and Spatial Cyberinfrastructure, Web GIS, etc.)
- \* Turning Big Data to Rich Data and Knowledge: Roles of CyberGIS and Geography

#### Paper Sessions

- \* Bridging CyberGIS and Sustainability Sciences
- \* CyberGIS for Collaborative Geographic Sciences
- \* CyberGIS for Complex Geographic Problem Solving
- \* CyberGIS for Taming Big Data
- \* CyberGIS, Linked Data, and Geospatial Semantics
- \* Multi-scale Spatiotemporal Modeling and Simulation
- \* Research Frontiers across CyberGIS and Geography
- \* Synergistic Advances of CyberGIS and Data Sciences

Possible questions and topics addressed by the Symposium include but are not limited to:

- \* How to educate the next-generation workforce with cutting edge CyberGIS and geographic knowledge?
- \* What desirable advances in Geography may not be possible without CyberGIS?
- \* What new research and education frontiers does CyberGIS represent?
- \* What theories and principles of Geography can and should guide the development of CyberGIS?
- \* What are major geographic challenges and questions to fuel CyberGIS innovation?
- \* What are the best approaches to synergistically advancing CyberGIS and Geography?
- \* What scientific breakthroughs does CyberGIS enable that would not otherwise have been possible without it?
- \* Why is CyberGIS a complex systems science?

If you are interested in organizing any sessions as part of the symposium, please contact Shaowen Wang via [shaowen@illinois.edu](mailto:shaowen@illinois.edu). To present a paper in any of the Symposium sessions, please register and submit your abstract online, and email your presenter identification number (PIN), paper title, and abstract to [aag14@cybergis.org](mailto:aag14@cybergis.org) by December 3, 2013. We look forward to your submissions and participation!

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